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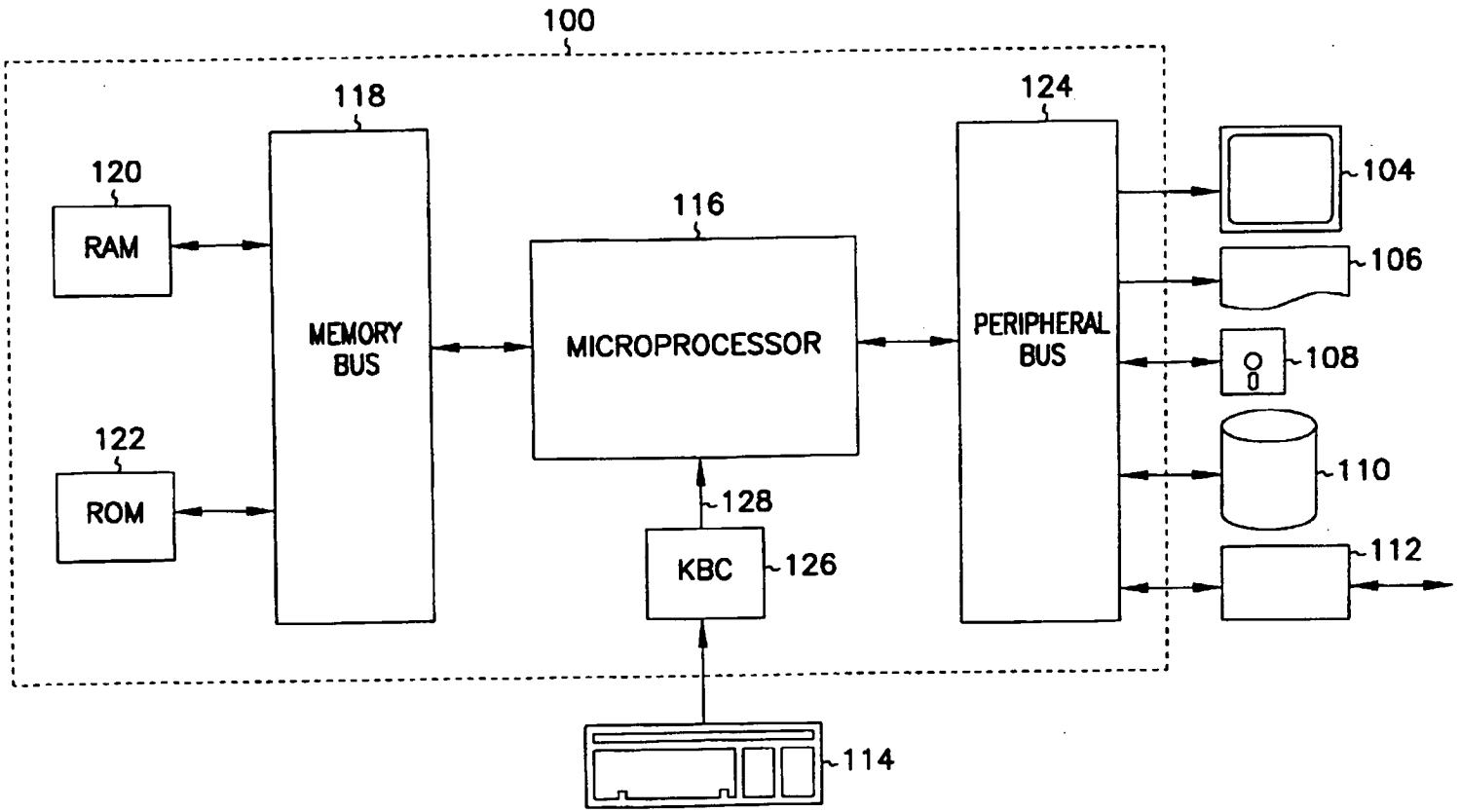

100
118
120
RAM
MEMORY BUS
116
MICROPROCESSOR
124
PERIPHERAL BUS
104
106
108
110
112
122
ROM
128
KBC
126
114

FIG. 1

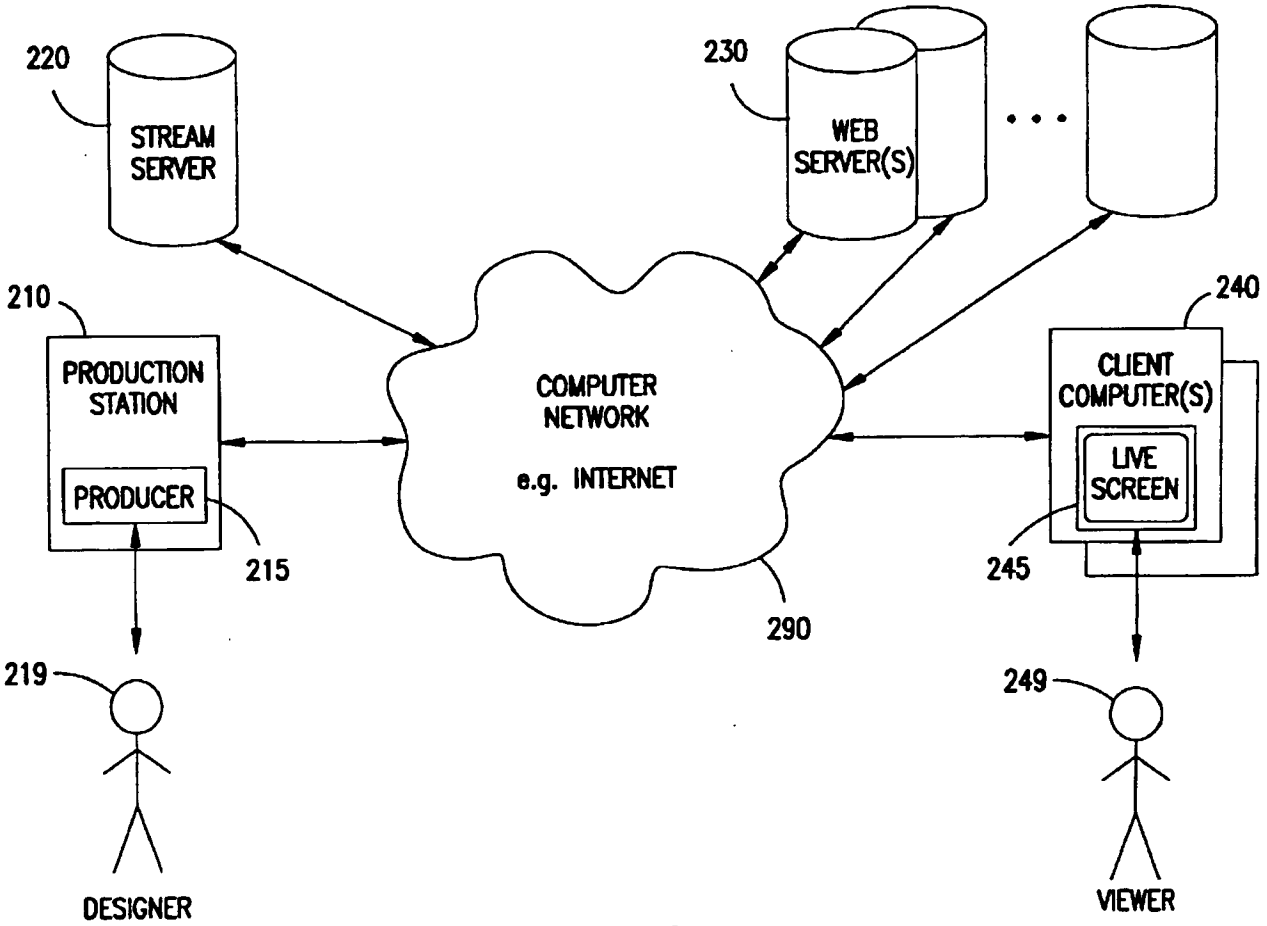

220
STREAM SERVER
230
WEB SERVER(S)
210
PRODUCTION STATION
PRODUCER
215
COMPUTER NETWORK
e.g. INTERNET
290
240
CLIENT COMPUTER(S)
LIVE SCREEN
245
219
DESIGNER
249
VIEWER

FIG. 2

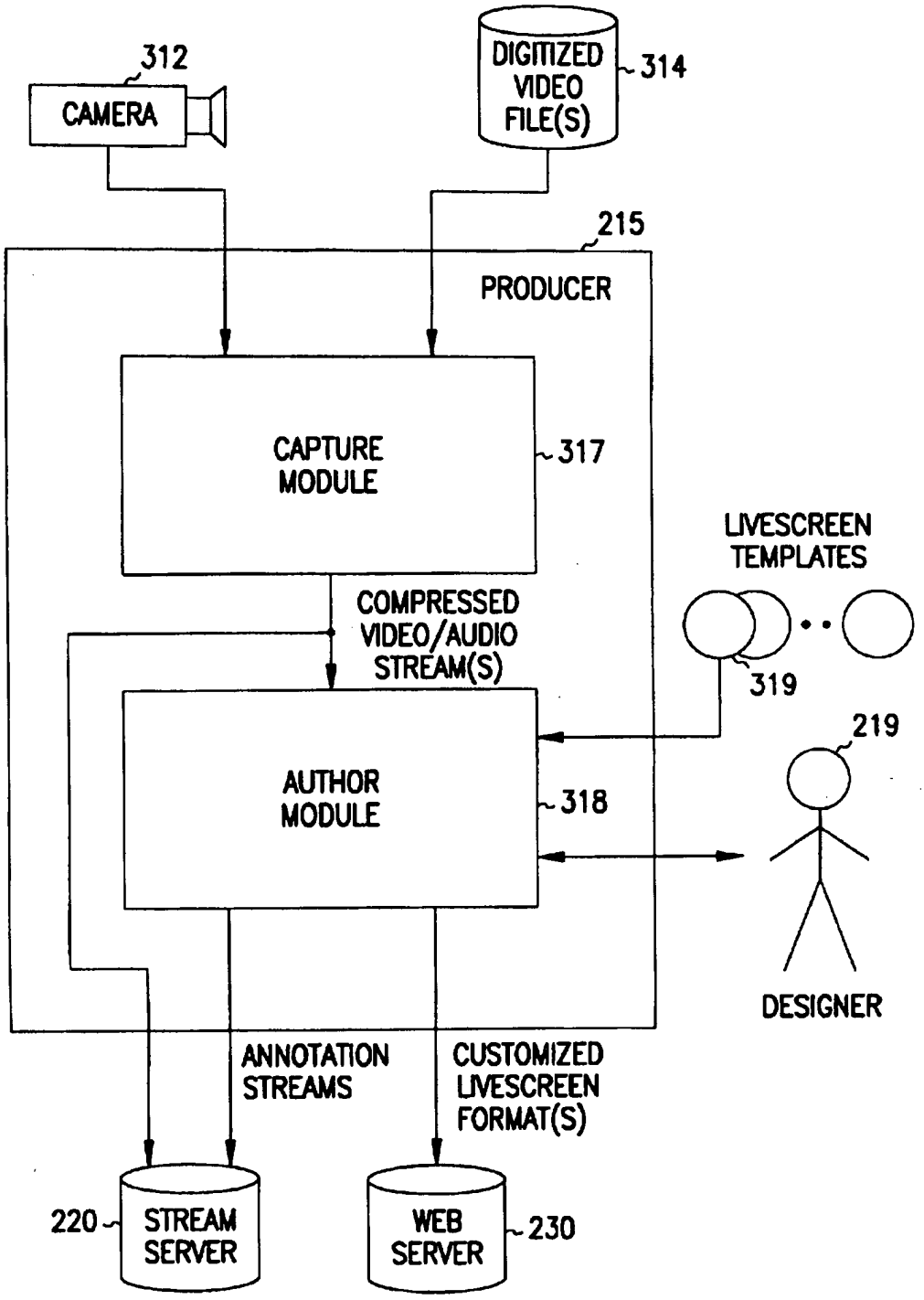

312
CAMERA
DIGITIZED VIDEO FILE(S)
314
215
PRODUCER
CAPTURE MODULE
317
LIVESCREEN TEMPLATES
COMPRESSED VIDEO/AUDIO STREAM(S)
319
219
AUTHOR MODULE
318
DESIGNER
ANNOTATION STREAMS
CUSTOMIZED LIVESCREEN FORMAT(S)
220
STREAM SERVER
WEB SERVER
230

FIG. 3

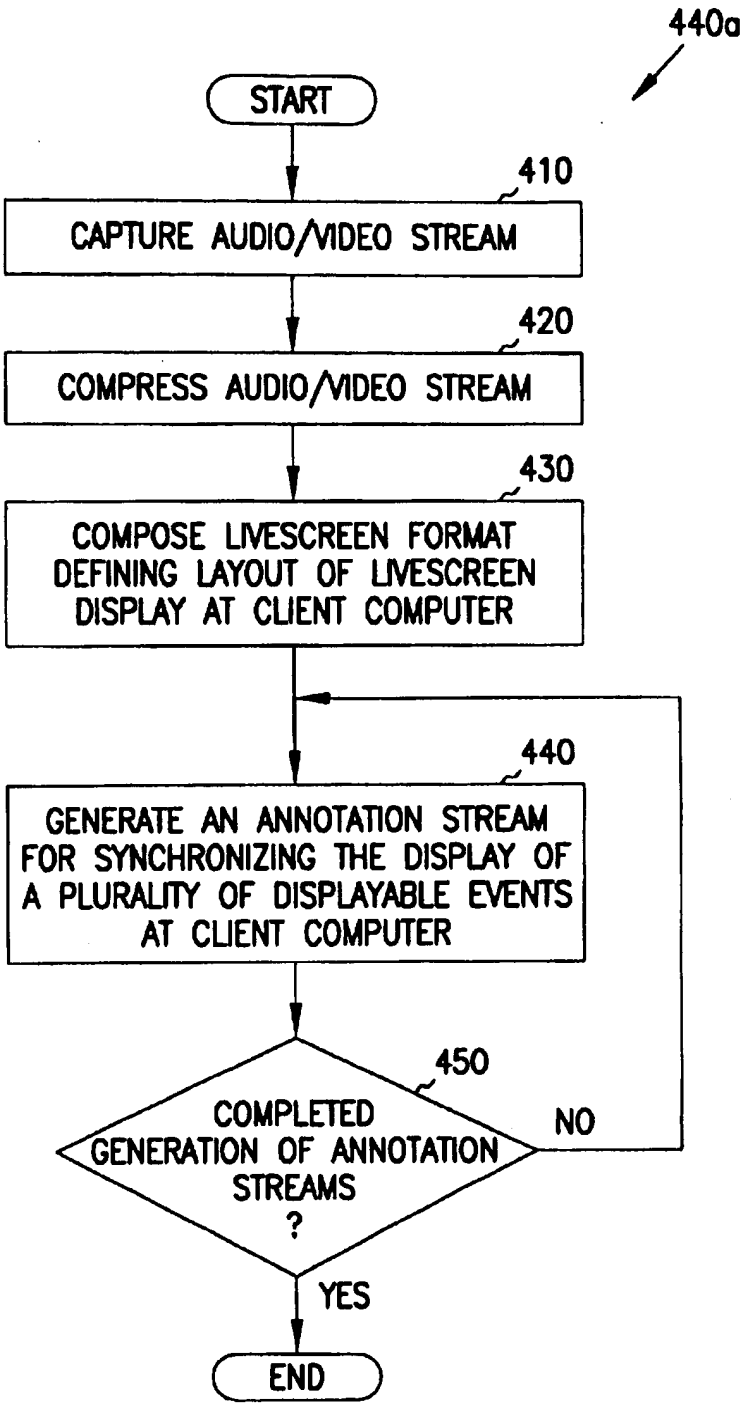

440a
START
410
CAPTURE AUDIO/VIDEO STREAM
420
COMPRESS AUDIO/VIDEO STREAM
430
COMPOSE LIVESCREEN FORMAT DEFINING LAYOUT OF LIVESCREEN DISPLAY AT CLIENT COMPUTER
440
GENERATE AN ANNOTATION STREAM FOR SYNCHRONIZING THE DISPLAY OF A PLURALITY OF DISPLAYABLE EVENTS AT CLIENT COMPUTER
450
COMPLETED GENERATION OF ANNOTATION STREAMS ?
NO
YES
END

FIG. 4A

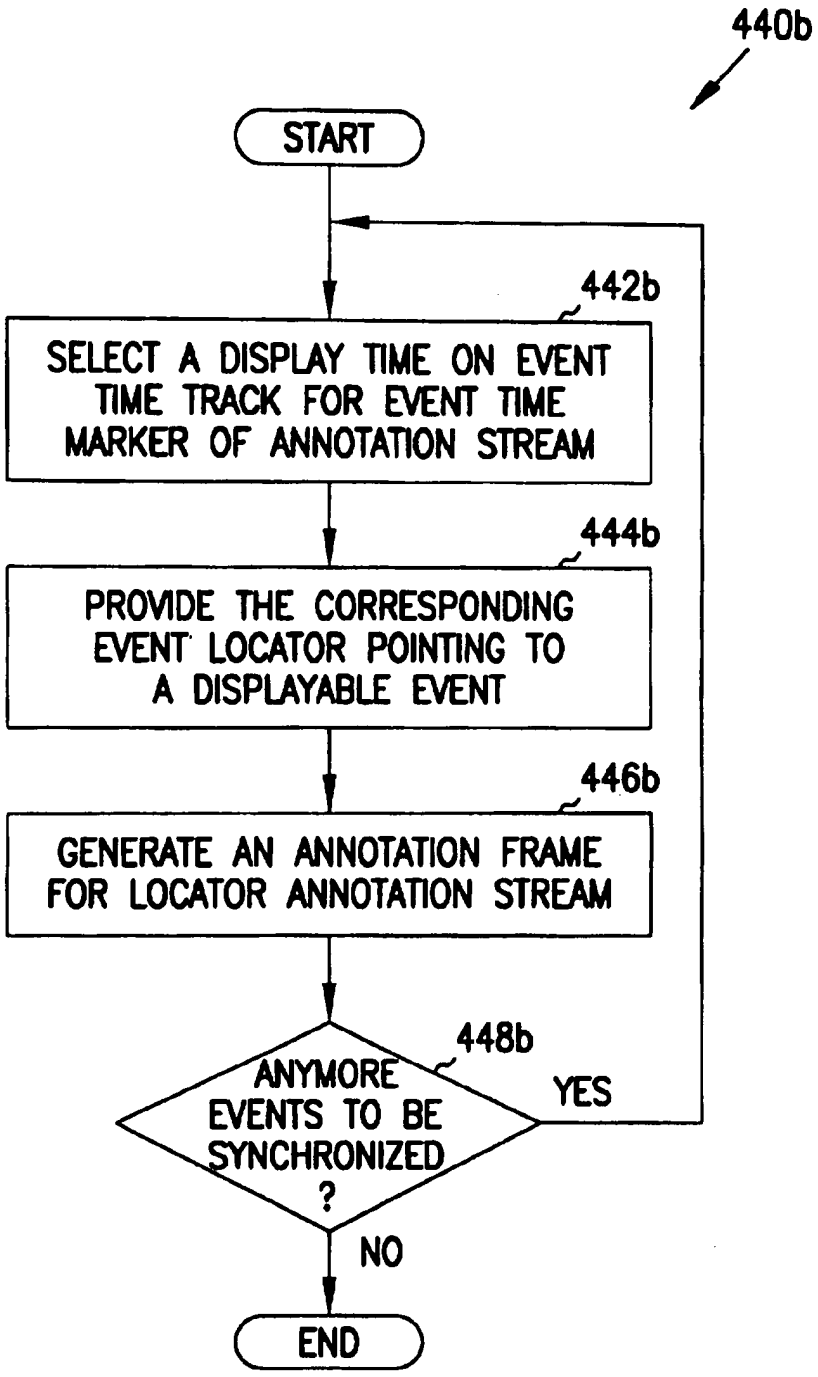

440b
START
442b
SELECT A DISPLAY TIME ON EVENT TIME TRACK FOR EVENT TIME MARKER OF ANNOTATION STREAM
444b
PROVIDE THE CORRESPONDING EVENT LOCATOR POINTING TO A DISPLAYABLE EVENT
446b
GENERATE AN ANNOTATION FRAME FOR LOCATOR ANNOTATION STREAM
448b
ANYMORE EVENTS TO BE SYNCHRONIZED ?
YES
NO
END

FIG. 4B

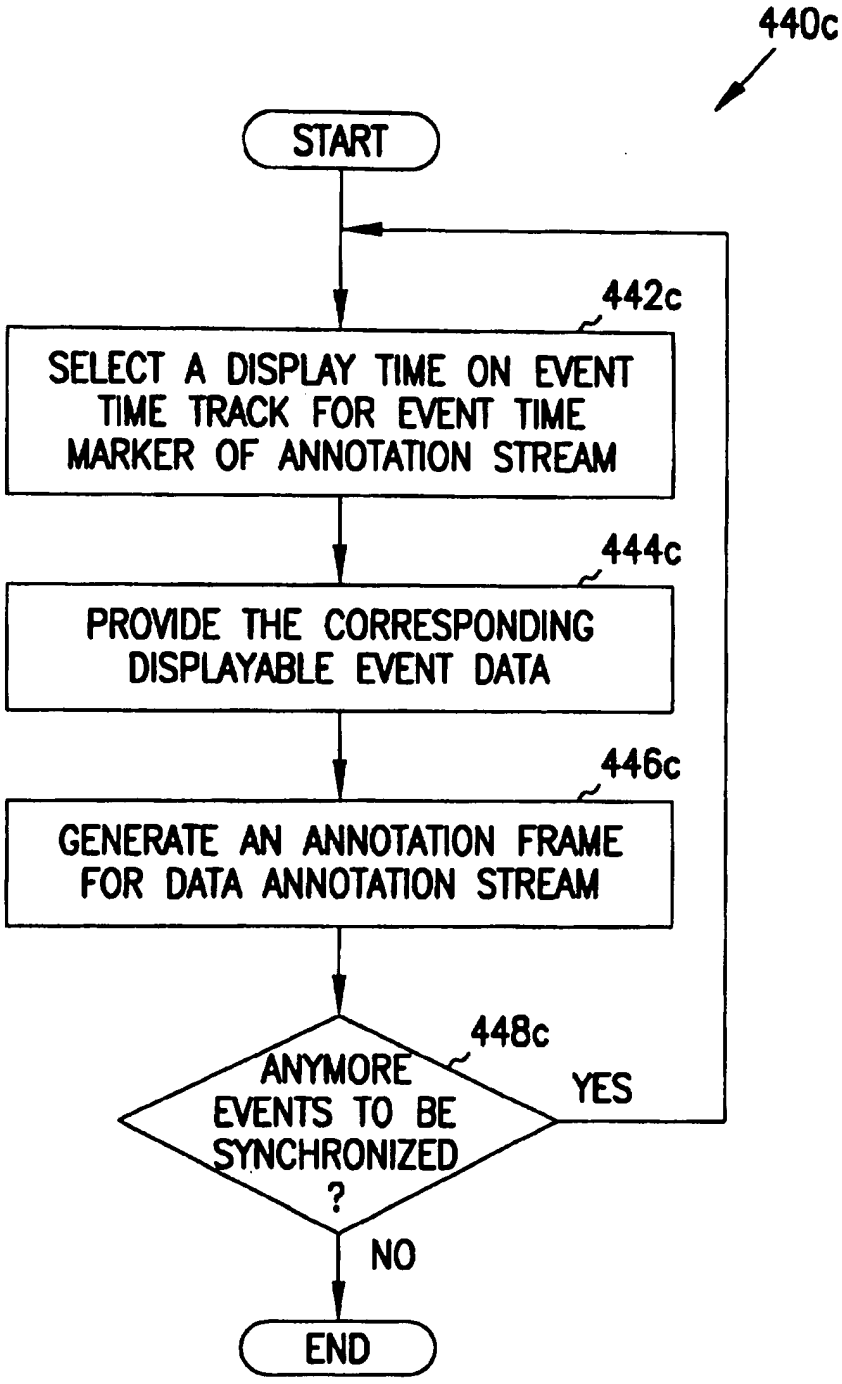

440c
START
442c
SELECT A DISPLAY TIME ON EVENT TIME TRACK FOR EVENT TIME MARKER OF ANNOTATION STREAM
444c
PROVIDE THE CORRESPONDING DISPLAYABLE EVENT DATA
446c
GENERATE AN ANNOTATION FRAME FOR DATA ANNOTATION STREAM
448c
ANYMORE EVENTS TO BE SYNCHRONIZED ?
YES
NO
END

FIG. 4C

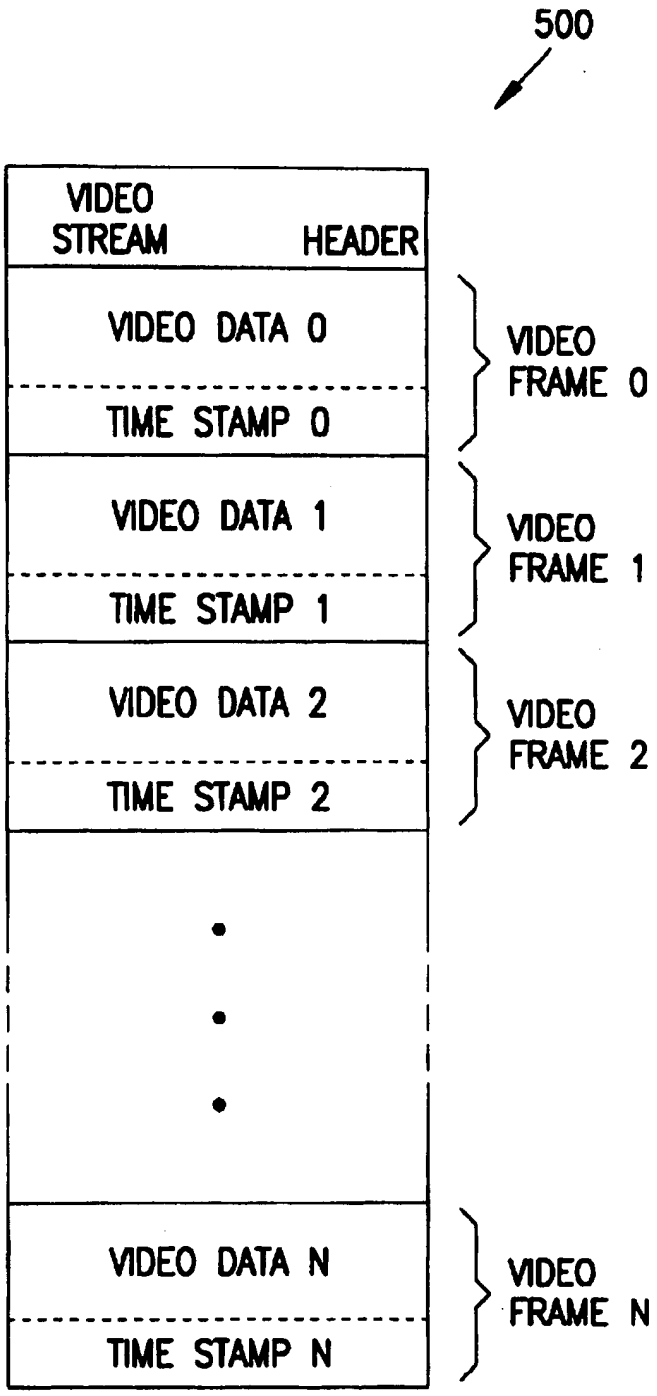

500
VIDEO STREAM HEADER
VIDEO DATA 0
TIME STAMP 0
VIDEO FRAME 0
VIDEO DATA 1
TIME STAMP 1
VIDEO FRAME 1
VIDEO DATA 2
TIME STAMP 2
VIDEO FRAME 2
VIDEO DATA N
TIME STAMP N
VIDEO FRAME N

FIG. 5

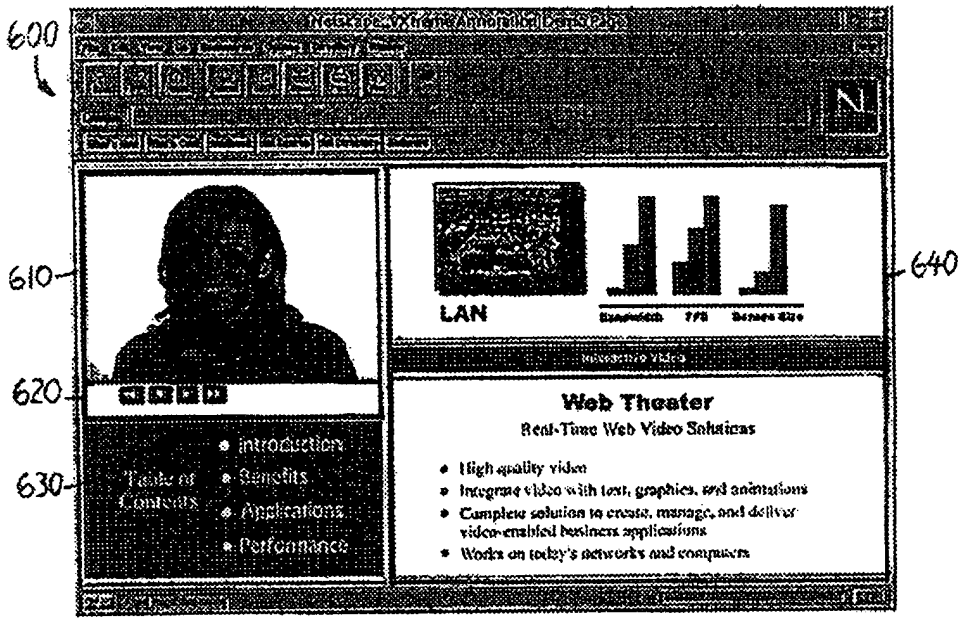

600
610
620
630
640
LAN
Web Theater
Real-Time Web Video Solutions
Table of Contents
Introduction
Benefits
Applications
Performance

FIG. 6

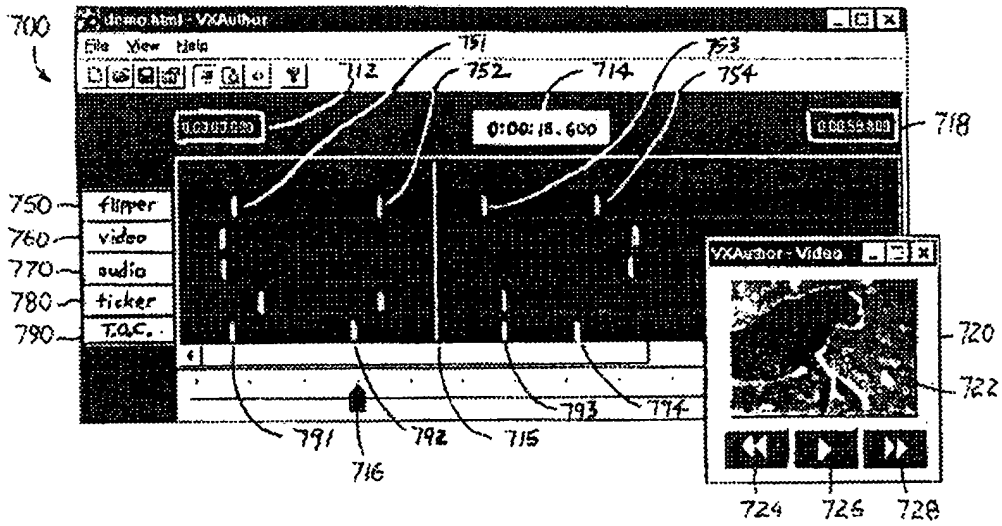

700
demo.html - VXAuthor
File View Help
712
751
752
714
753
754
0:00:18.600
718
750
flipper
760
video
770
audio
780
ticker
790
T.O.C.
VXAuthor - Video
720
722
791
716
792
715
793
794
724
726
728

FIG. 7

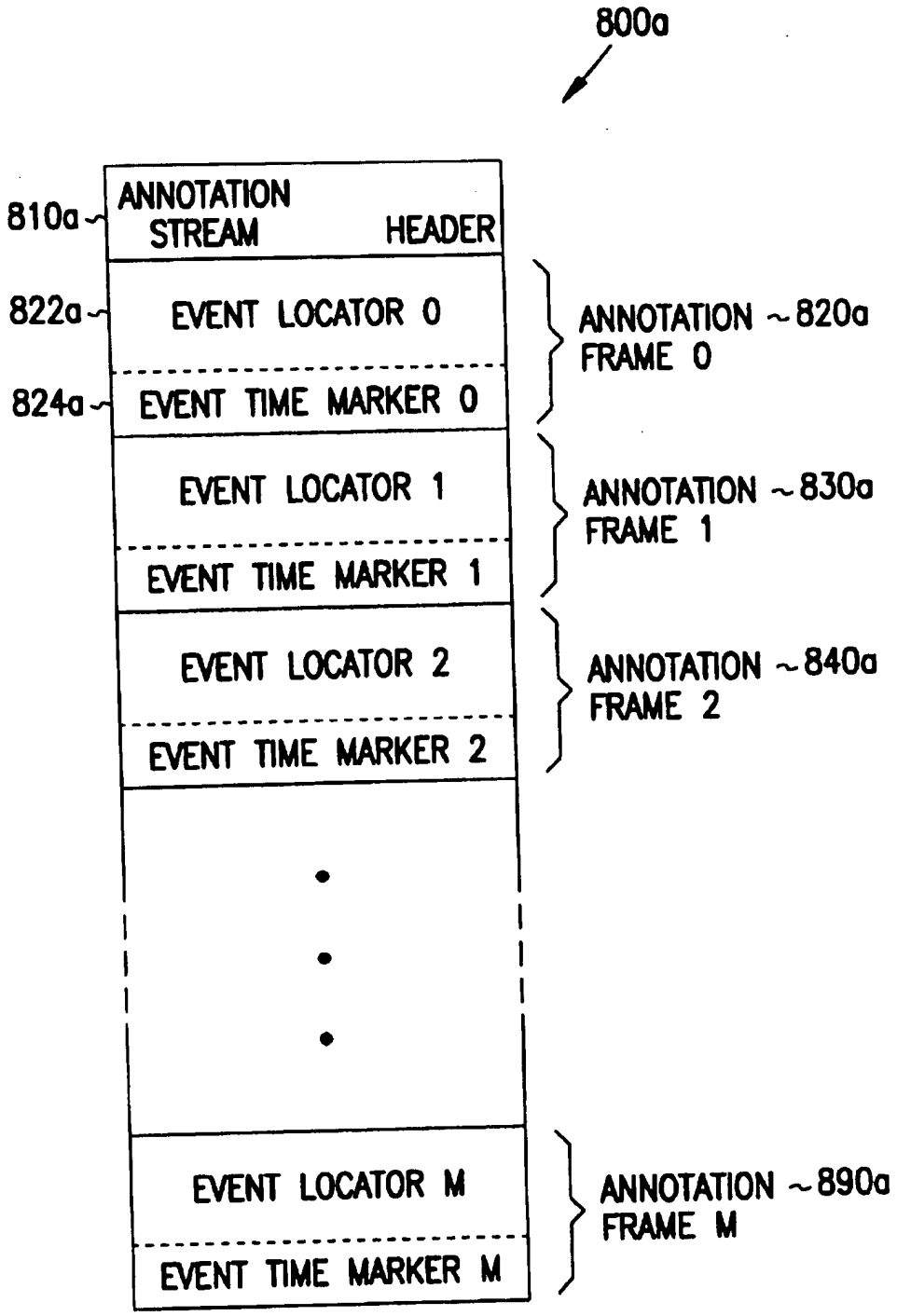

800a
810a
ANNOTATION STREAM HEADER
822a
EVENT LOCATOR 0
824a
EVENT TIME MARKER 0
ANNOTATION 820a FRAME 0
EVENT LOCATOR 1
EVENT TIME MARKER 1
ANNOTATION 830a FRAME 1
EVENT LOCATOR 2
EVENT TIME MARKER 2
ANNOTATION 840a FRAME 2
EVENT LOCATOR M
EVENT TIME MARKER M
ANNOTATION 890a FRAME M

FIG. 8A

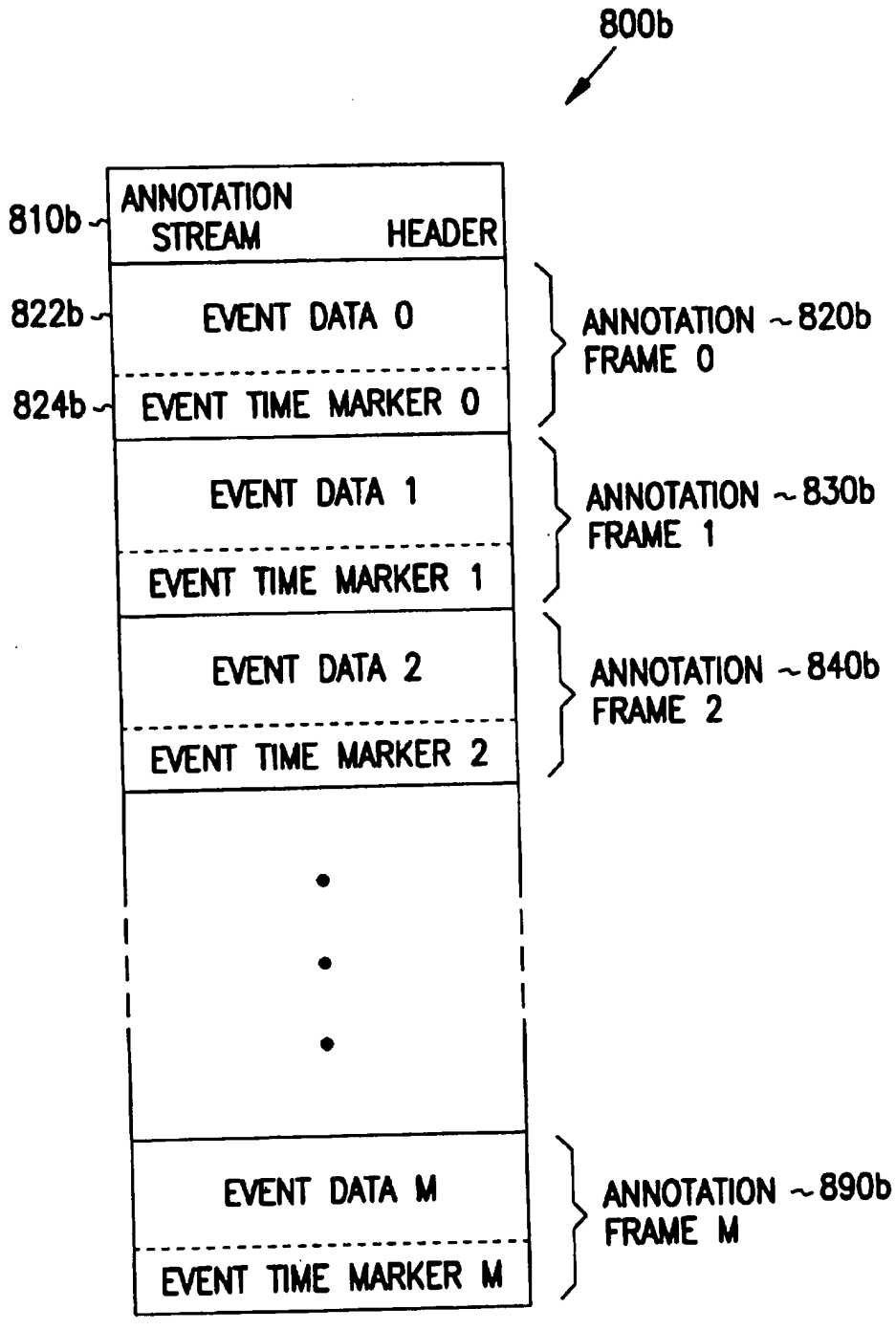

800b
810b
ANNOTATION STREAM HEADER
822b
EVENT DATA 0
824b
EVENT TIME MARKER 0
ANNOTATION FRAME 0 ~820b
EVENT DATA 1
EVENT TIME MARKER 1
ANNOTATION FRAME 1 ~830b
EVENT DATA 2
EVENT TIME MARKER 2
ANNOTATION FRAME 2 ~840b
EVENT DATA M
EVENT TIME MARKER M
ANNOTATION FRAME M ~890b

FIG. 8B

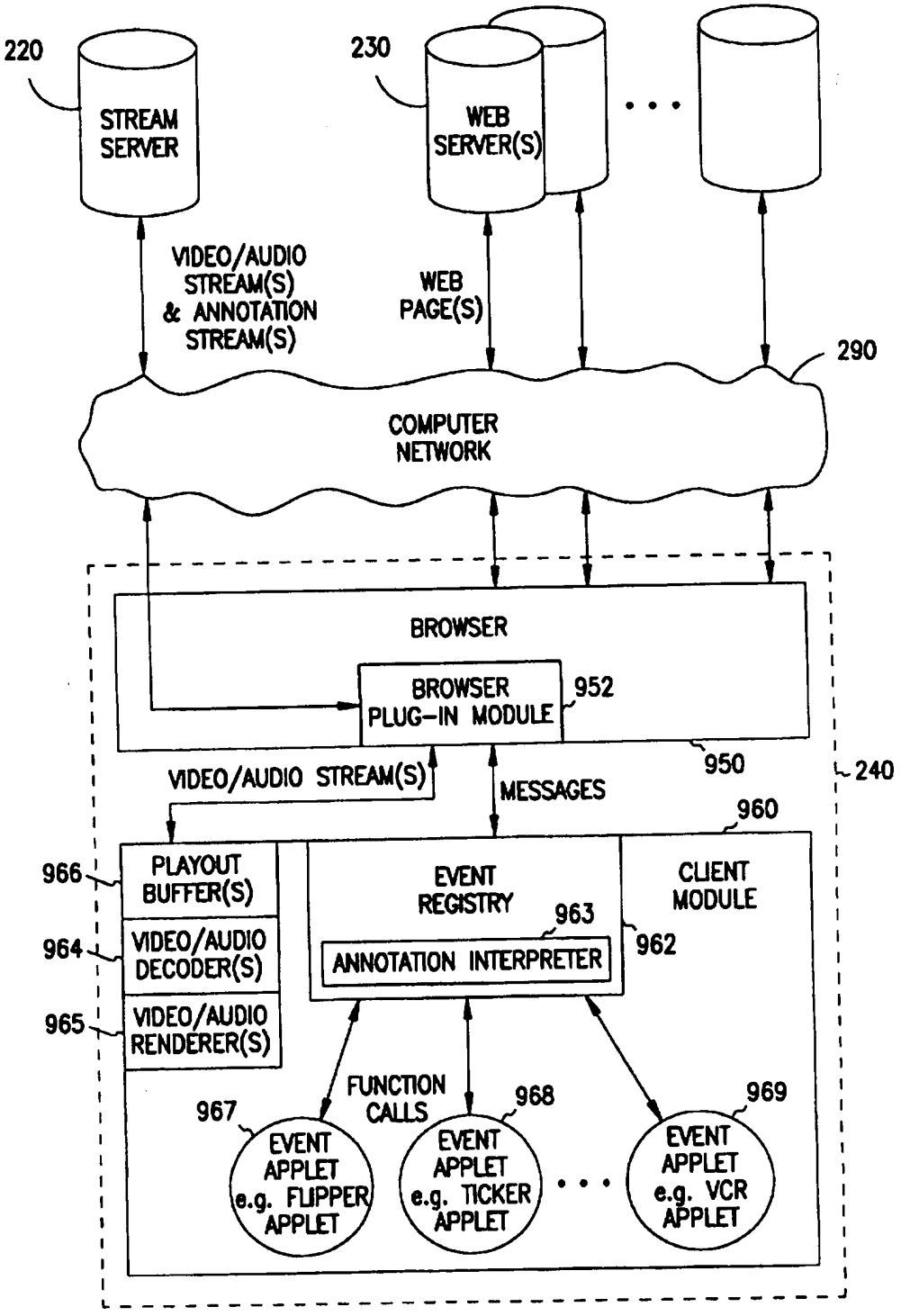

220
STREAM SERVER
230
WEB SERVER(S)
VIDEO/AUDIO STREAM(S) & ANNOTATION STREAM(S)
WEB PAGE(S)
290
COMPUTER NETWORK
BROWSER
BROWSER PLUG-IN MODULE
952
950
240
VIDEO/AUDIO STREAM(S)
MESSAGES
960
966
PLAYOUT BUFFER(S)
964
VIDEO/AUDIO DECODER(S)
965
VIDEO/AUDIO RENDERER(S)
EVENT REGISTRY
963
ANNOTATION INTERPRETER
CLIENT MODULE
962
FUNCTION CALLS
967
968
969
EVENT APPLET e.g. FLIPPER APPLET
EVENT APPLET e.g. TICKER APPLET
EVENT APPLET e.g. VCR APPLET

FIG. 9

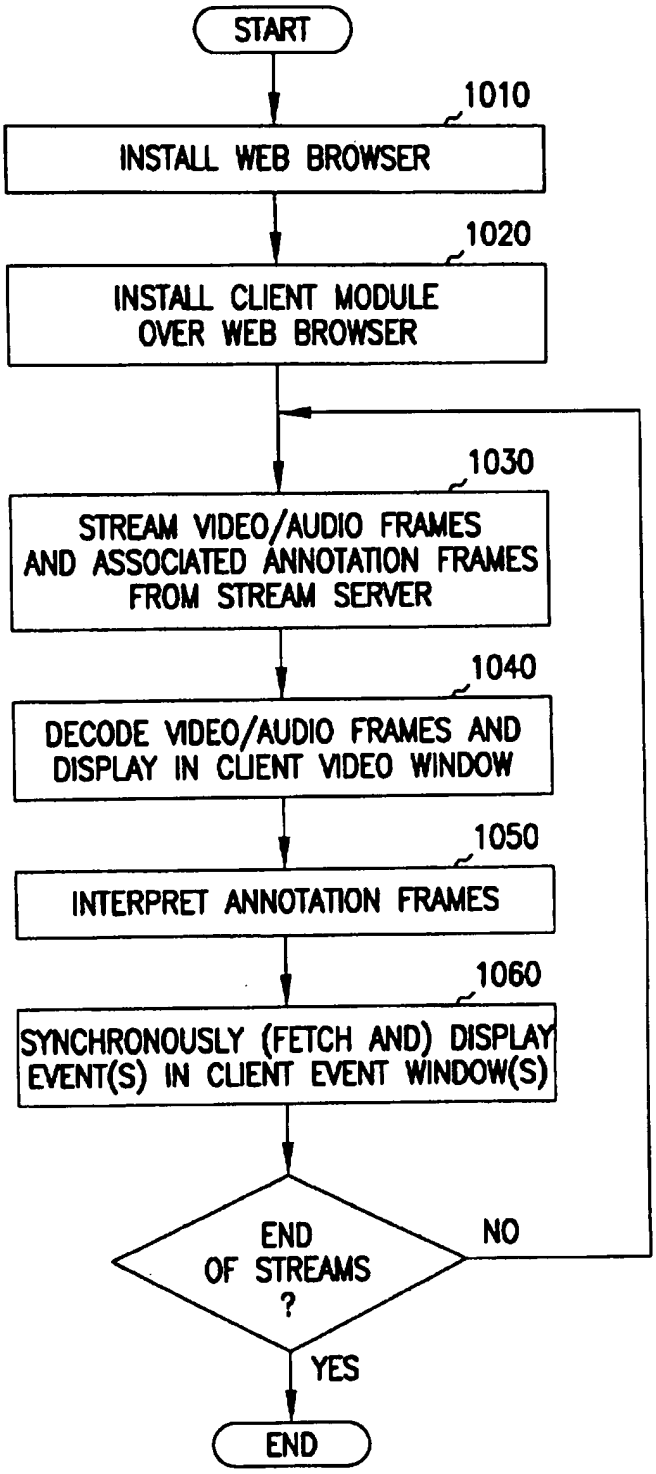

START
1010
INSTALL WEB BROWSER
1020
INSTALL CLIENT MODULE OVER WEB BROWSER
1030
STREAM VIDEO/AUDIO FRAMES AND ASSOCIATED ANNOTATION FRAMES FROM STREAM SERVER
1040
DECODE VIDEO/AUDIO FRAMES AND DISPLAY IN CLIENT VIDEO WINDOW
1050
INTERPRET ANNOTATION FRAMES
1060
SYNCHRONOUSLY (FETCH AND) DISPLAY EVENT(S) IN CLIENT EVENT WINDOW(S)
END OF STREAMS ?
NO
YES
END

FIG. 10A

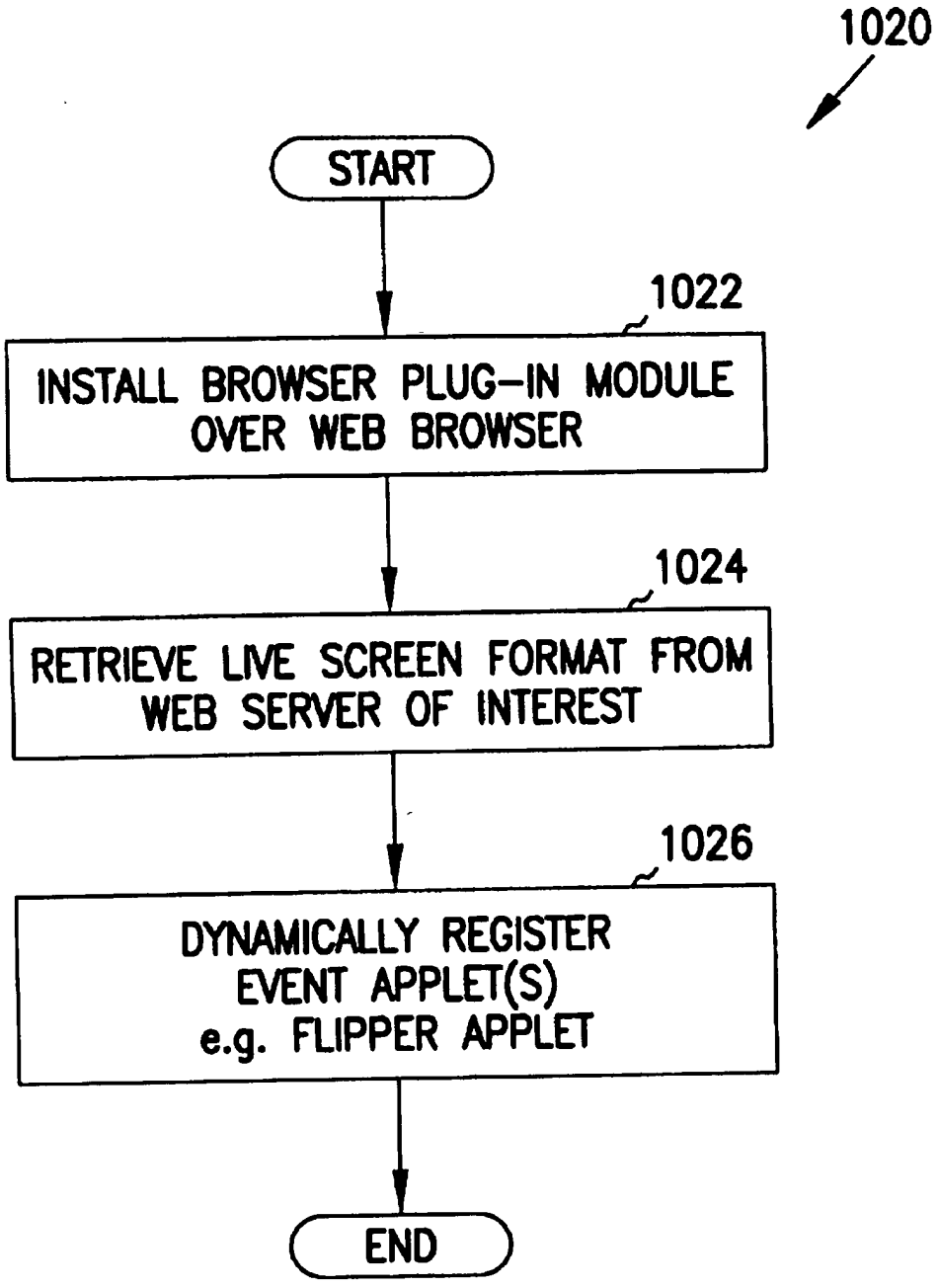

1020
START
1022
INSTALL BROWSER PLUG-IN MODULE OVER WEB BROWSER
1024
RETRIEVE LIVE SCREEN FORMAT FROM WEB SERVER OF INTEREST
1026
DYNAMICALLY REGISTER EVENT APPLET(S) e.g. FLIPPER APPLET
END

FIG. 10B

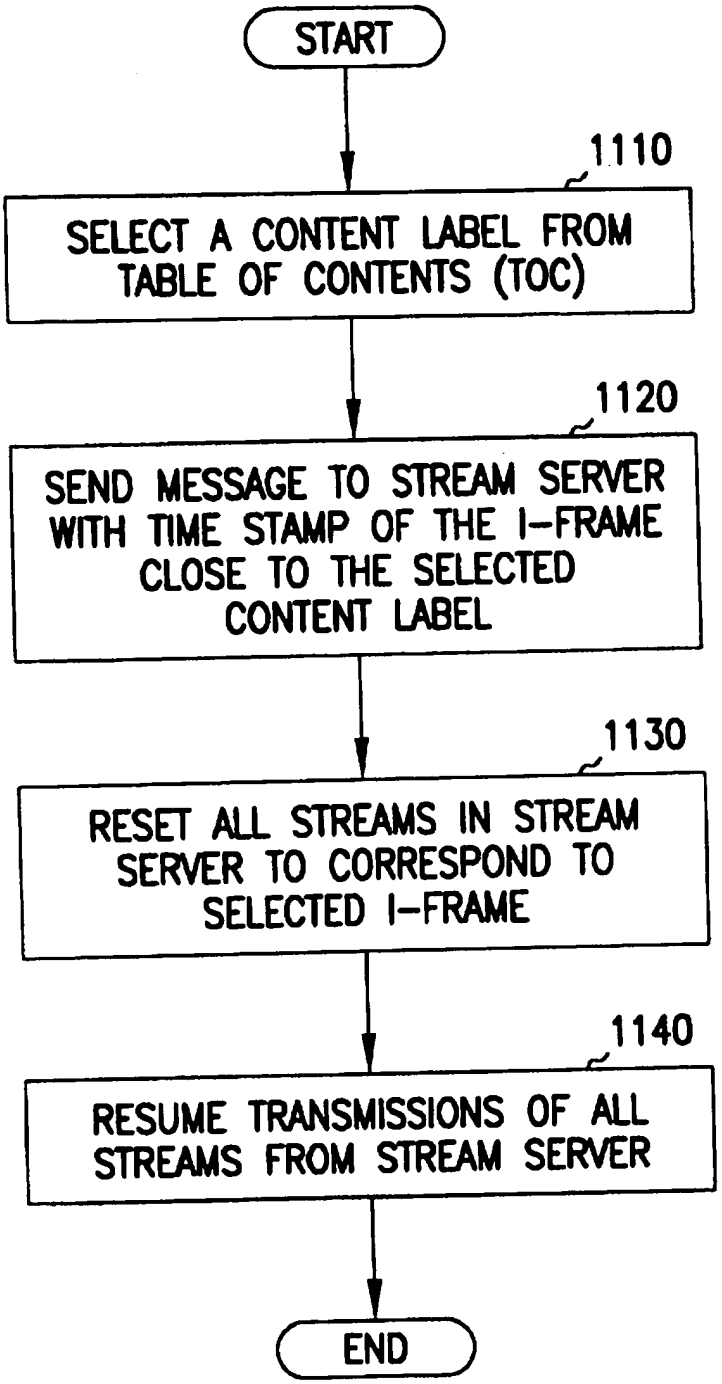

START
1110
SELECT A CONTENT LABEL FROM TABLE OF CONTENTS (TOC)
1120
SEND MESSAGE TO STREAM SERVER WITH TIME STAMP OF THE I-FRAME CLOSE TO THE SELECTED CONTENT LABEL
1130
RESET ALL STREAMS IN STREAM SERVER TO CORRESPOND TO SELECTED I-FRAME
1140
RESUME TRANSMISSIONS OF ALL STREAMS FROM STREAM SERVER
END

FIG. 11

FIGURE 12

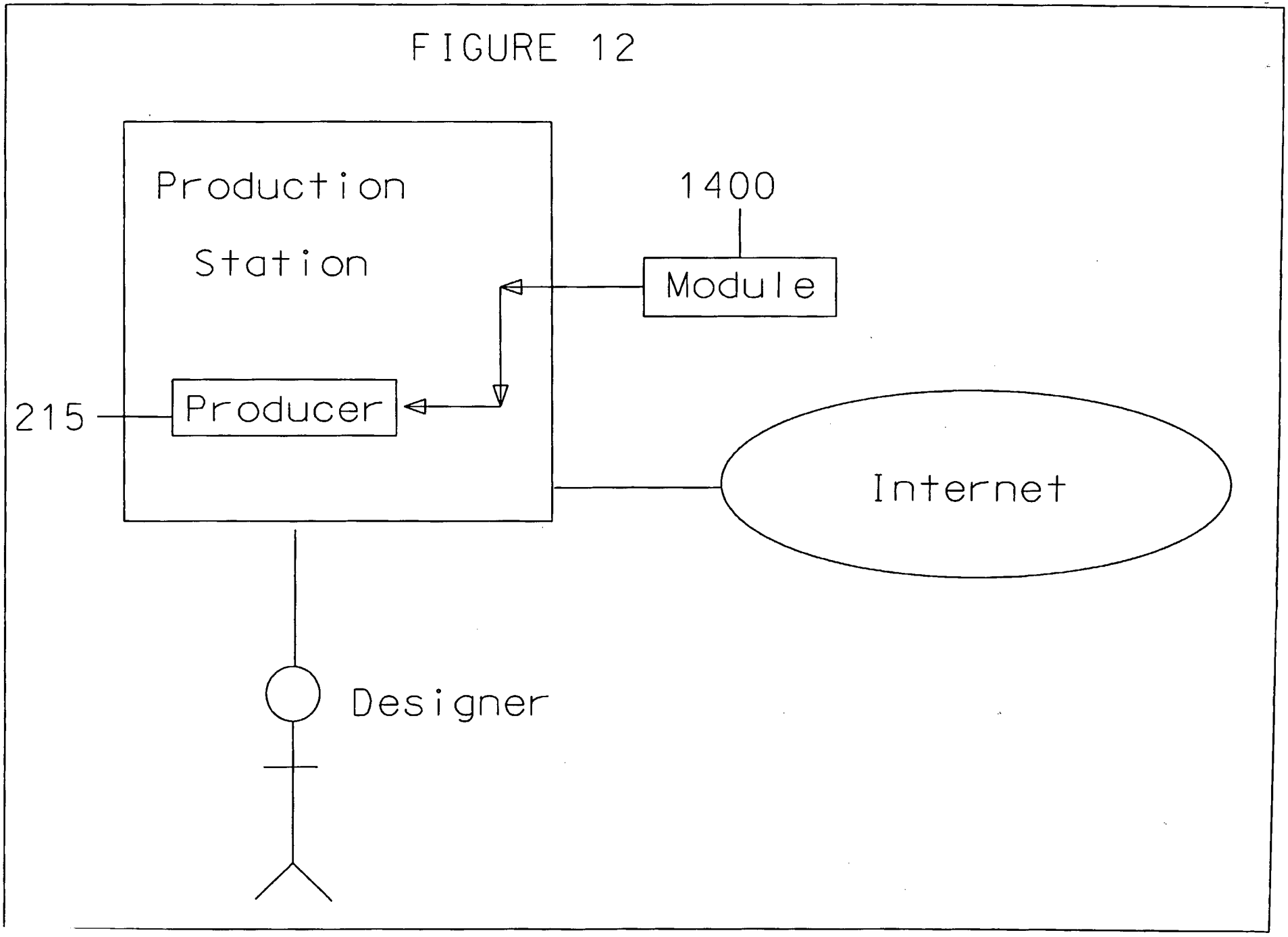

Production
Station
1400
Module
215
Producer
Internet
Designer

FIGURE 13A

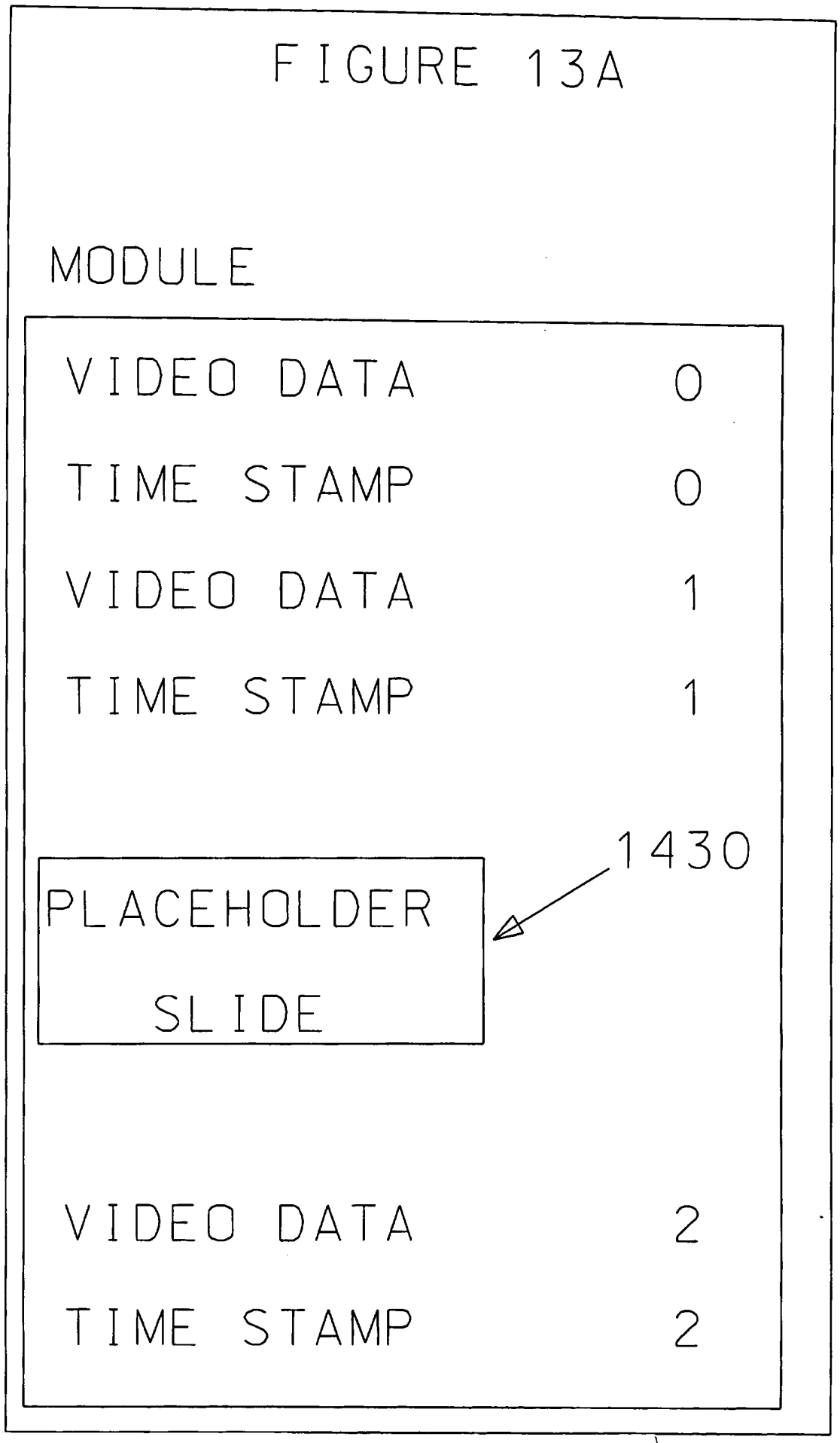
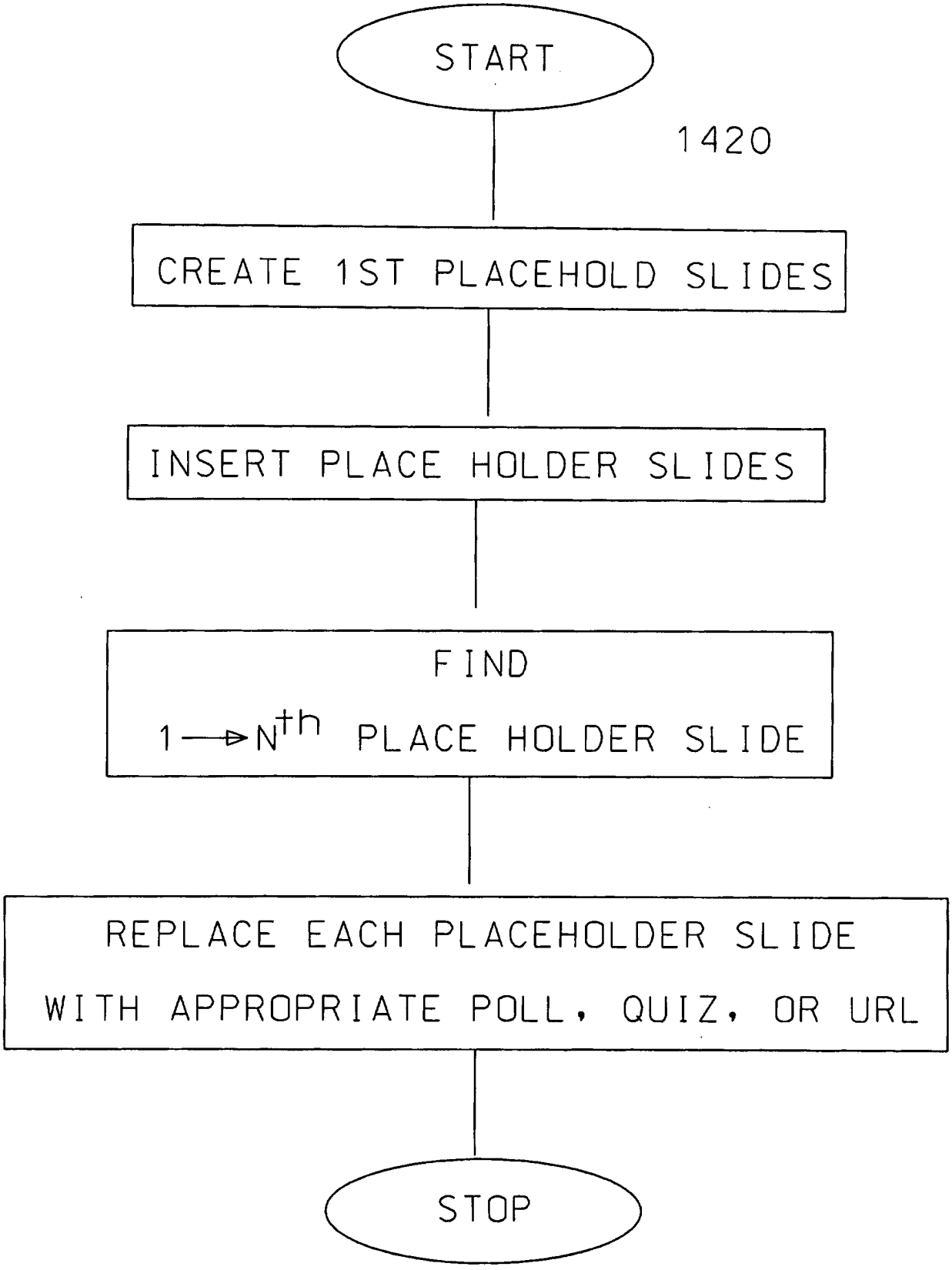

MODULE
VIDEO DATA 0
TIME STAMP 0
VIDEO DATA 1
TIME STAMP 1
1430
PLACEHOLDER SLIDE
VIDEO DATA 2
TIME STAMP 2

FIGURE 13B



[Academic use only] ...\estreaming media.dgn 12/30/2003 9:48:10 AM

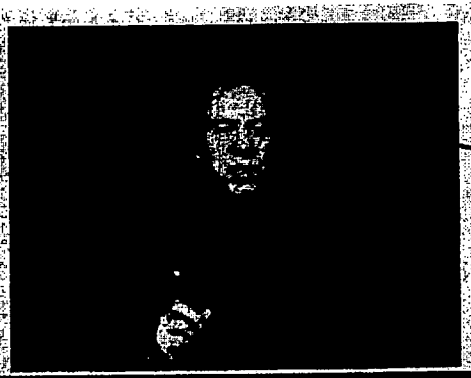
MSProducer by ezCast - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address http://www.ecollaboration.net/d_ext/MSProducers/eCollabProducer/ecollab-sbielak_FirstResponder04_files/Run.asp?ID=16608&MP={CA7E3FF1-DE1E-4B4E-8505-B3EFC5280343} Go

Google Search Web 142 blocked AutoFill Options



0:01:07 / 0:18:57

1600

1610

1620

1630

1614

Distance training for first responders may ...
Compare Yourself to Other Trainers
Take the Poll
eStreamingMedia It's Like Asynchronous ...
First Responder Distance Training
"In no way intended to replace your local r...
Up To the Minute News
Want to Learn More?

First Responder Training Survey

Find out what other First Responder trainers are thinking about. After you have entered your responses - scroll down and click Submit. You can then review the summary of all responses. Individual responses, including your comments, will be kept confidential.

Enter your responses, then click the "submit" button at the end of the questions

1. ***Using the scale below, how would you describe your impressions of how our elected officials are dealing with the terrorist issues.***
   - (•) No opinion
   - Collaborating Well ( ) ( ) ( ) ( ) ( ) ( ) ( ) Too Much Politics

2. ***Some people feel that First Responder training, especially for potential acts of terrorism, be focused on the area that they serve and not be too general. How do you feel abou this?***
   - (•) No opinion
   - ( ) Strongly disagree ( ) Disagree ( ) Uncertain ( ) Agree ( ) Strongly agree

3. ***What items are impacting your training? Check all that apply.***
   - [ ] A. Need to keep learners on the job - cannot take them out of the field
   - [ ] B. Need training that is more specific to the area we serve
   - [ ] C. Not enough funds and resources
   - [ ] D. Reinforcement and briefing the field
   - [ ] E. Other. Please use the comments box below

4. ***Using the scale below - how would you rate your learners ability to use technology - their access to and comfort with using the Internet.***
   - (•) No opinion
   - No Internet Accesss ( ) ( ) ( ) ( ) ( ) ( ) ( ) Most Use Internet

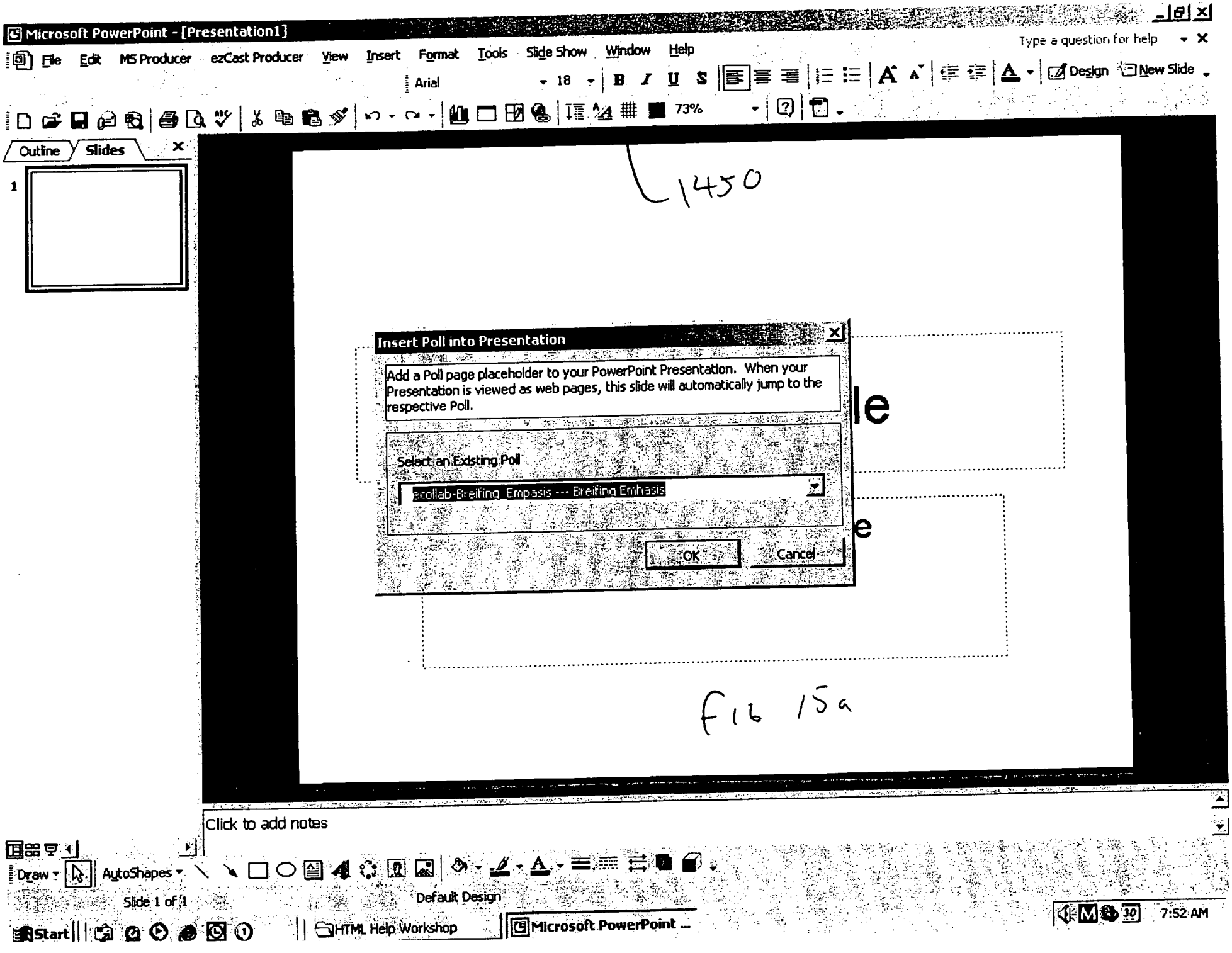
Buffering

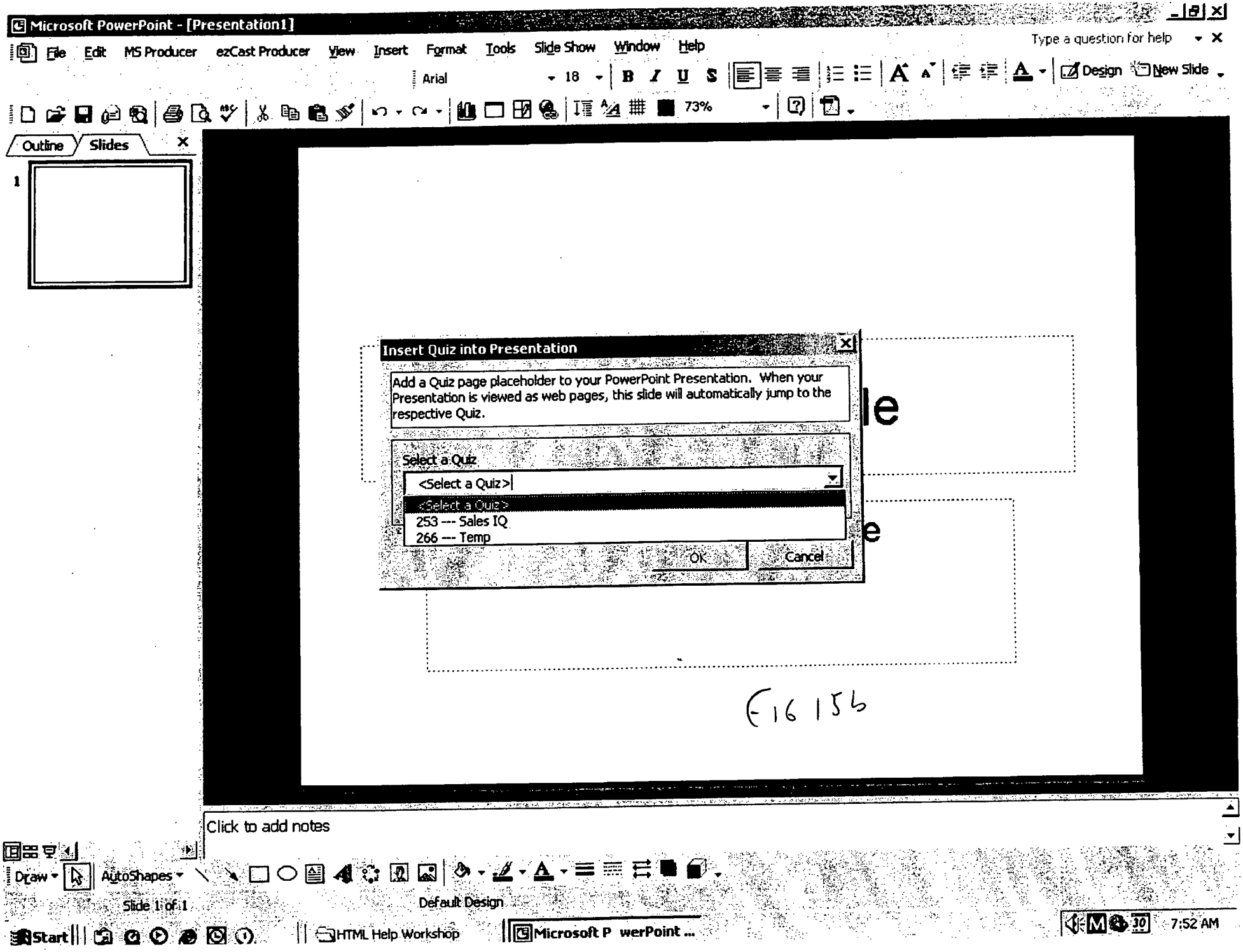
Submit Questions

Done

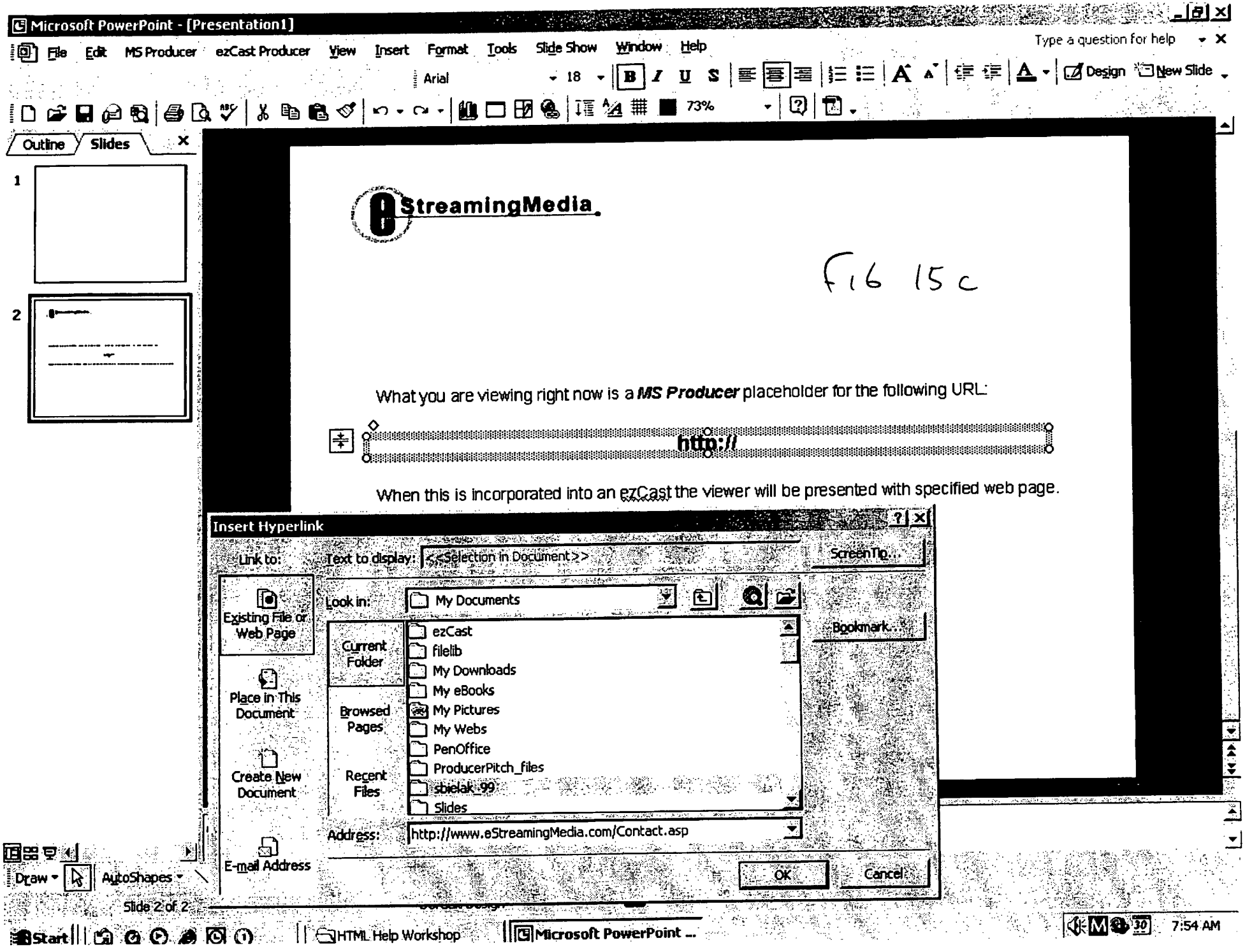
Internet

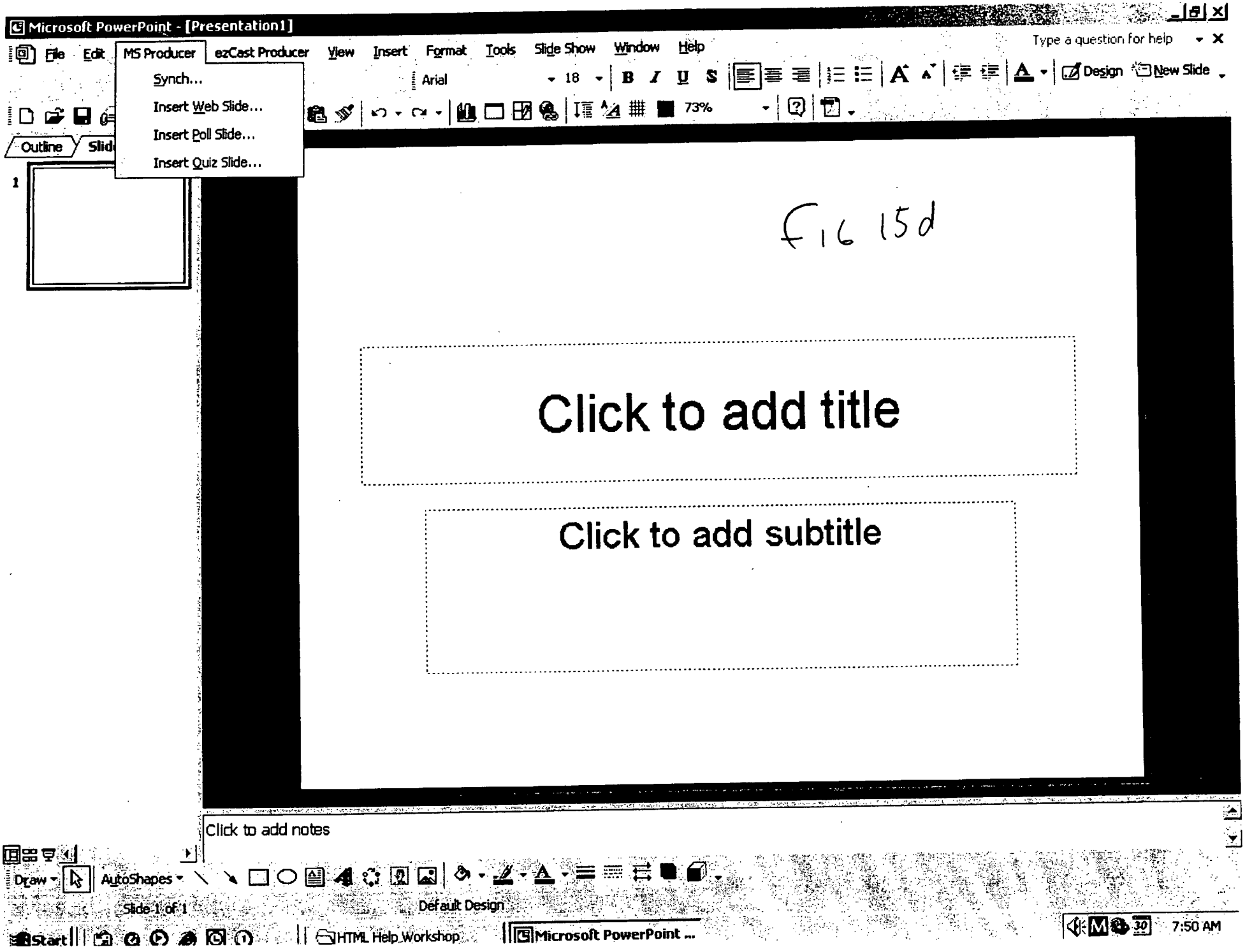
Start http://ecollaboration.net/... MSProducer by ezCast - ... 8:00 AM

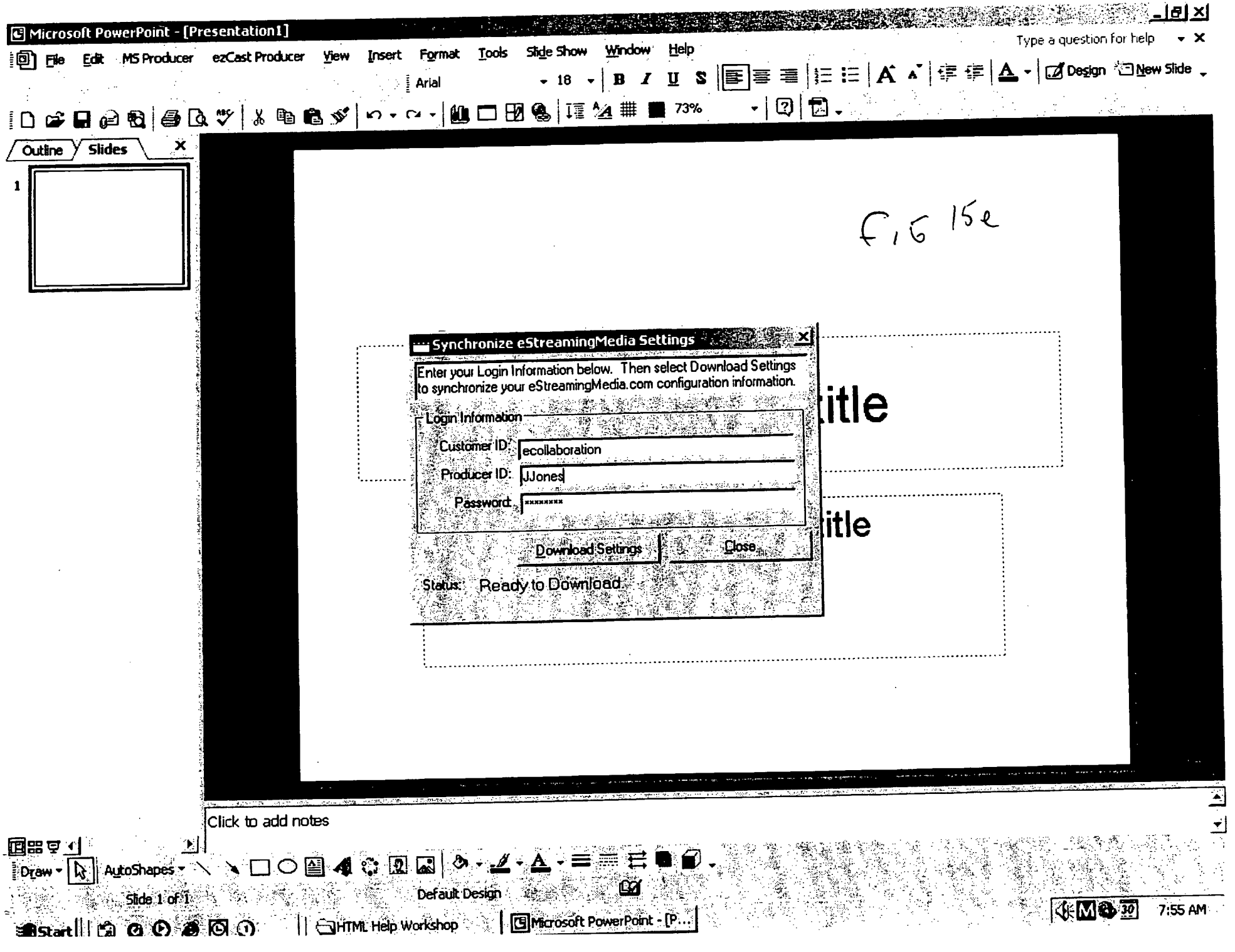

Microsoft PowerPoint - [Presentation1]
Type a question for help
File Edit MS Producer ezCast Producer View Insert Format Tools Slide Show Window Help
Arial 18 B I U S Design New Slide
73%
Outline Slides
1
1450
Insert Poll into Presentation
Add a Poll page placeholder to your PowerPoint Presentation. When your Presentation is viewed as web pages, this slide will automatically jump to the respective Poll.
Select an Existing Poll
acollab-Briefing_Empasis --- Briefing Emhasis
OK
Cancel
Fig 15a
Click to add notes
Draw AutoShapes
Slide 1 of 1
Default Design
Start
HTML Help Workshop
Microsoft PowerPoint ...
7:52 AM

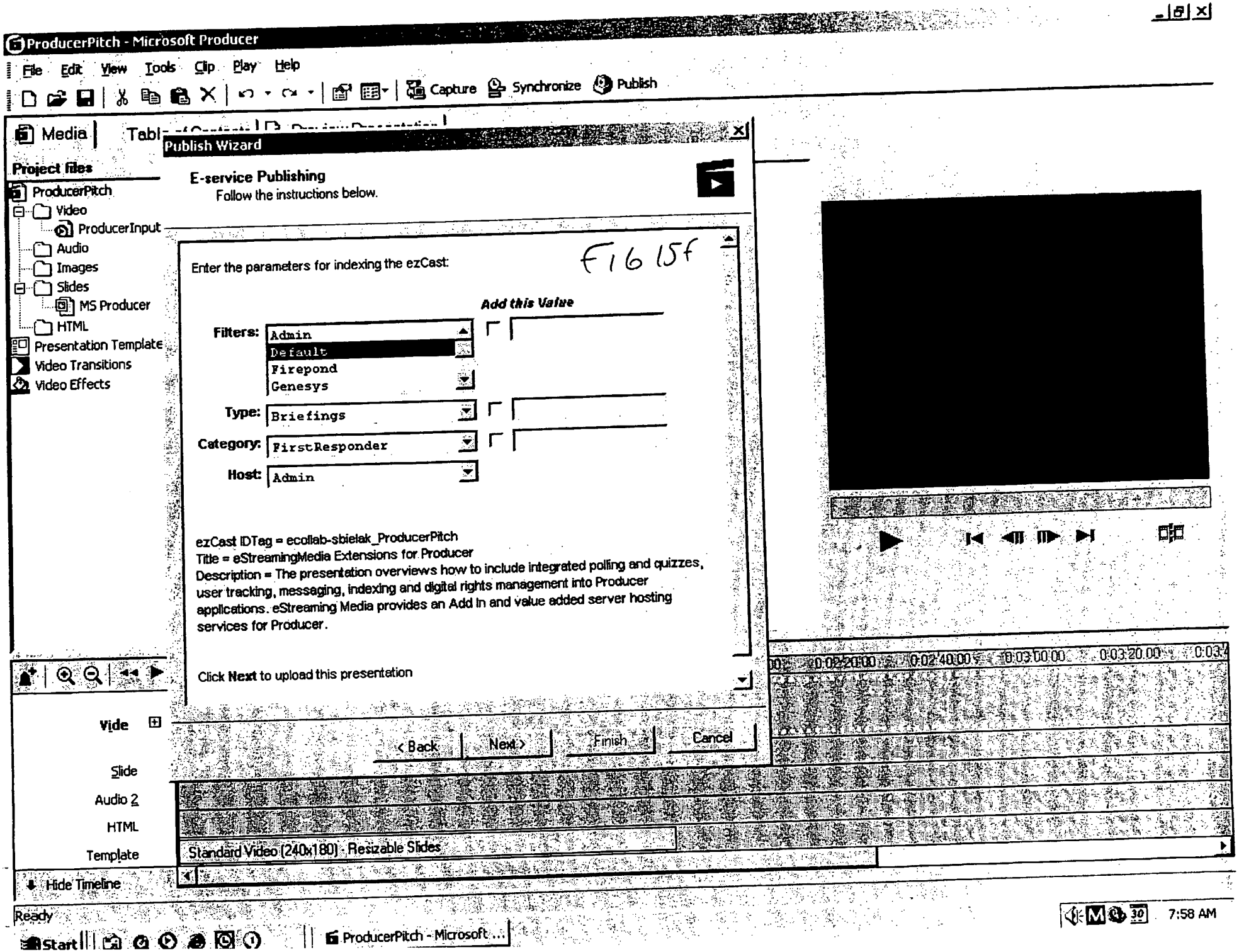

Microsoft PowerPoint - [Presentation1]
File Edit MS Producer ezCast Producer View Insert Format Tools Slide Show Window Help
Type a question for help
Arial 18 B I U S Design New Slide
73%
Outline Slides
1
Insert Quiz into Presentation
Add a Quiz page placeholder to your PowerPoint Presentation. When your Presentation is viewed as web pages, this slide will automatically jump to the respective Quiz.
Select a Quiz
<Select a Quiz>
<Select a Quiz>
253 --- Sales IQ
266 --- Temp
OK
Cancel
Click to add notes
Draw AutoShapes
Slide 1 of 1
Default Design
Start
HTML Help Workshop
Microsoft P werPoint ...
7:52 AM

F16 15b


Microsoft PowerPoint - [Presentation1]
File Edit MS Producer ezCast Producer View Insert Format Tools Slide Show Window Help
Type a question for help
Arial 18 Design New Slide
73%
Outline Slides
1
2
StreamingMedia
Fig 15c
What you are viewing right now is a MS Producer placeholder for the following URL:
http://
When this is incorporated into an ezCast the viewer will be presented with specified web page.
Insert Hyperlink
Link to:
Text to display: <<Selection in Document>>
ScreenTip...
Existing File or Web Page
Look in: My Documents
Current Folder
Browsed Pages
Recent Files
ezCast
filelib
My Downloads
My eBooks
My Pictures
My Webs
PenOffice
ProducerPitch_files
sbielak_99
Slides
Bookmark...
Place in This Document
Create New Document
E-mail Address
Address: http://www.eStreamingMedia.com/Contact.asp
OK
Cancel
Draw AutoShapes
Slide 2 of 2
Start
HTML Help Workshop
Microsoft PowerPoint ...
7:54 AM

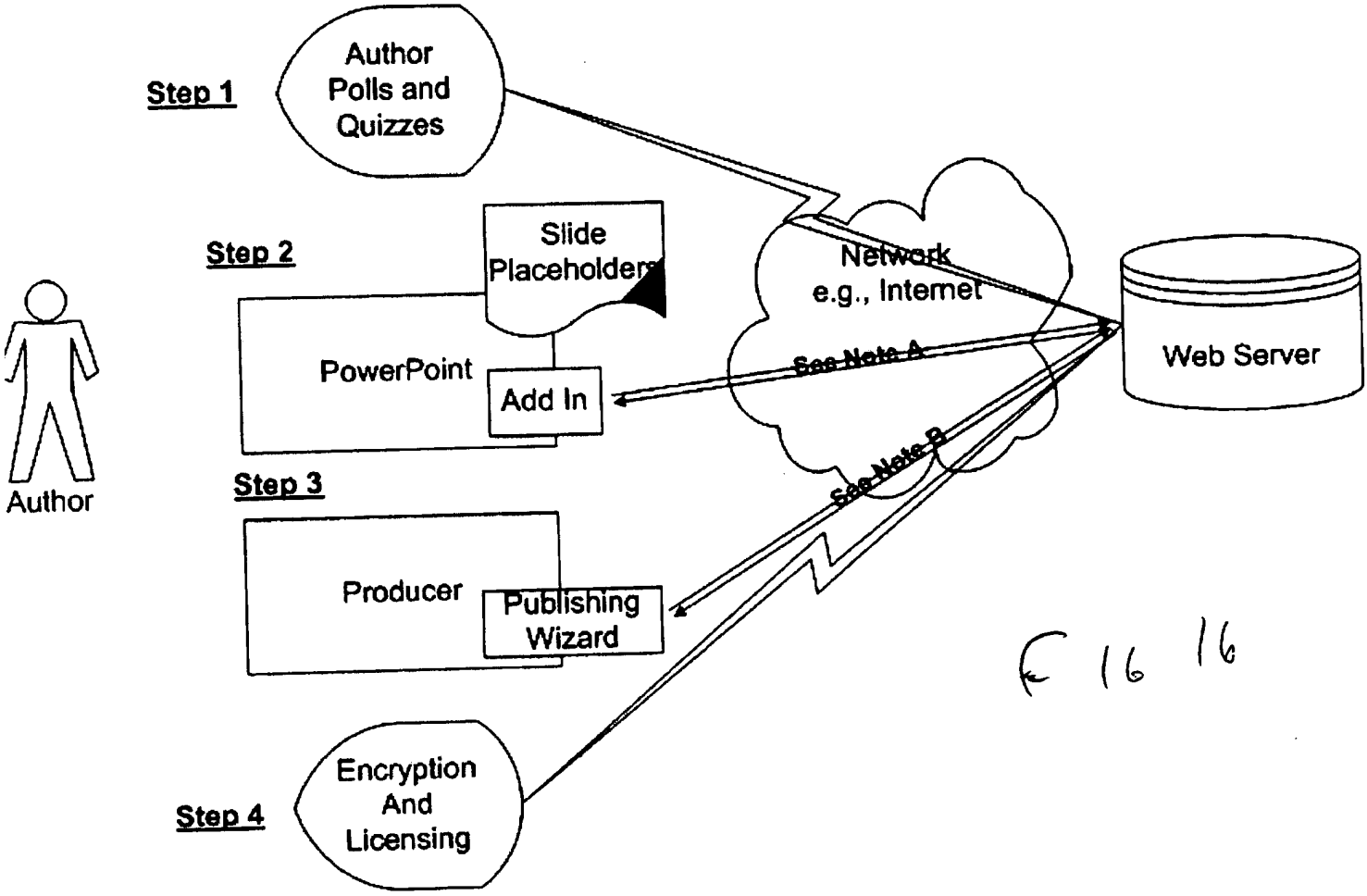

Microsoft PowerPoint - [Presentation1]
File Edit MS Producer ezCast Producer View Insert Format Tools Slide Show Window Help
Type a question for help
Synch...
Insert Web Slide...
Insert Poll Slide...
Insert Quiz Slide...
Arial 18 B I U S Design New Slide
73%
Outline
1
Fig 15d
Click to add title
Click to add subtitle
Click to add notes
Draw AutoShapes
Slide 1 of 1
Default Design
Start
HTML Help Workshop
Microsoft PowerPoint ...
7:50 AM


Microsoft PowerPoint - [Presentation1]
Type a question for help
File Edit MS Producer ezCast Producer View Insert Format Tools Slide Show Window Help
Arial 18 Design New Slide
73%
Outline Slides
1
Fig 15e
Synchronize eStreamingMedia Settings
Enter your Login Information below. Then select Download Settings to synchronize your eStreamingMedia.com configuration information.
Login Information
Customer ID: ecollaboration
Producer ID: JJones
Password: ********
Download Settings
Close
Status: Ready to Download
itle
itle
Click to add notes
Draw AutoShapes
Slide 1 of 1
Default Design
Start
HTML Help Workshop
Microsoft PowerPoint - [P...
7:55 AM


ProducerPitch - Microsoft Producer
File Edit View Tools Clip Play Help
Capture Synchronize Publish
Media
Publish Wizard
Project files
ProducerPitch
Video
ProducerInput
Audio
Images
Slides
MS Producer
HTML
Presentation Template
Video Transitions
Video Effects
E-service Publishing
Follow the instructions below.
Enter the parameters for indexing the ezCast:
F16 15f
Add this Value
Filters:
Admin
Default
Firepond
Genesys
Type:
Briefings
Category:
FirstResponder
Host:
Admin
ezCast IDTag = ecollab-sbielak_ProducerPitch
Title = eStreamingMedia Extensions for Producer
Description = The presentation overviews how to include integrated polling and quizzes, user tracking, messaging, indexing and digital rights management into Producer applications. eStreaming Media provides an Add In and value added server hosting services for Producer.
Click Next to upload this presentation
< Back
Next >
Finish
Cancel
0:02:20.00
0:02:40.00
0:03:00.00
0:03:20.00
Slide
Audio 2
HTML
Template
Standard Video (240x180) - Resizable Slides
Hide Timeline
Ready
Start
ProducerPitch - Microsoft ...
7:58 AM

Auth ring Process

Step 1. Author Polls and Quizz s on the server
Step 2. Us PowerPoint to author the slide show and insert placeholders for polls, quizzes and URL (i.e., other web pages) in the slide show
Step 3. Author the presentation (e.g., import audio/video, the slide show and synchronize the slide show with the A/V) and publish it to the server
Step 4. Encrypt and issue user licenses



Add In's and Server Synchronization

Note A – PowerPoint Add In
The add in first synchronizes with the server to create selection lists of available polls and quizzes. When selected, a slide placeholder is inserted that contains script and meta data which pauses the presentation and displays the selected poll or quiz. A similar place holder is used for displaying other web pag s (e.g., URL's)

N t B – Publishing Wizard
The add in first synchronizes with the server to create selection lists of indexing (e.g., 'sales training', 'product demos', 'internal use', tc.) and tracking criteria (e.g., assign to instructor 'A' for follow up). After upload and setting pointers it returns a link (i.e., URL) for the presentation.

Wrapper Process

The presentation is embedded in a frame within the wrapper page. The wrapper page:

- Monitors status with the server (e.g., starting to buffer) and displays it back to the user
- Monitors and records when a user starts a presentation and which parts were viewed
- Routes messages from the user to appropriate people (i.e., tracking)
- Monitors for encrypted content and shuts down if the user does not have a license

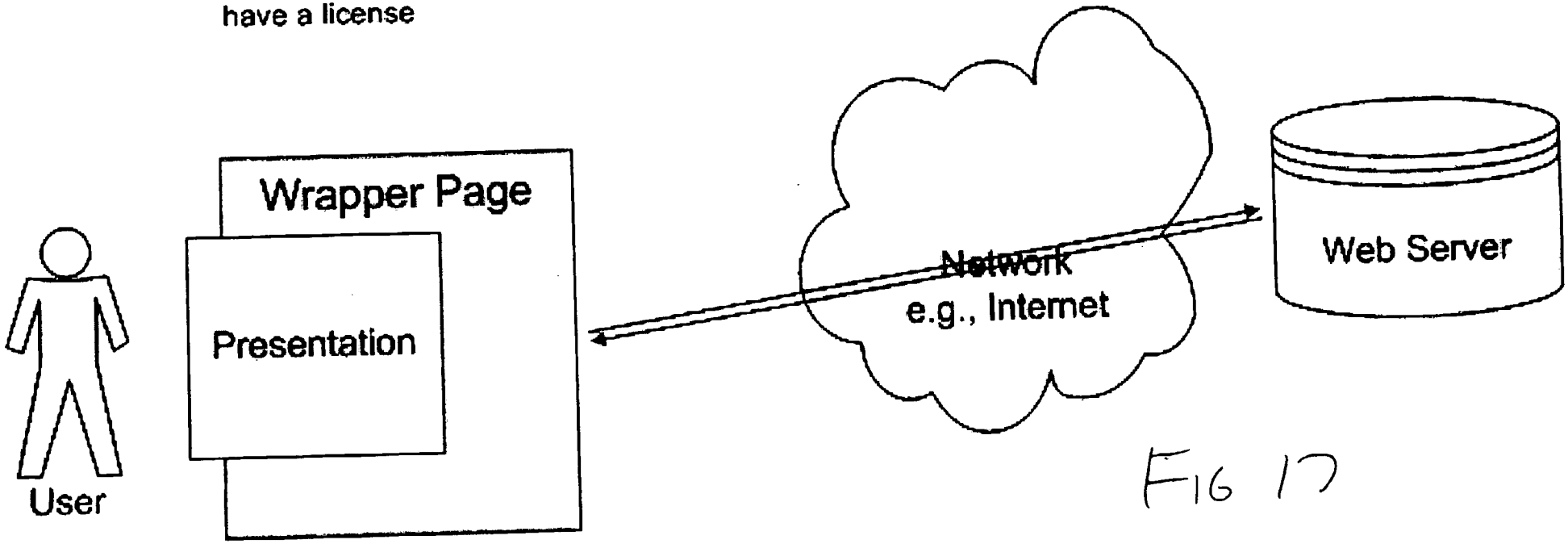


FIG 17

FIG 18

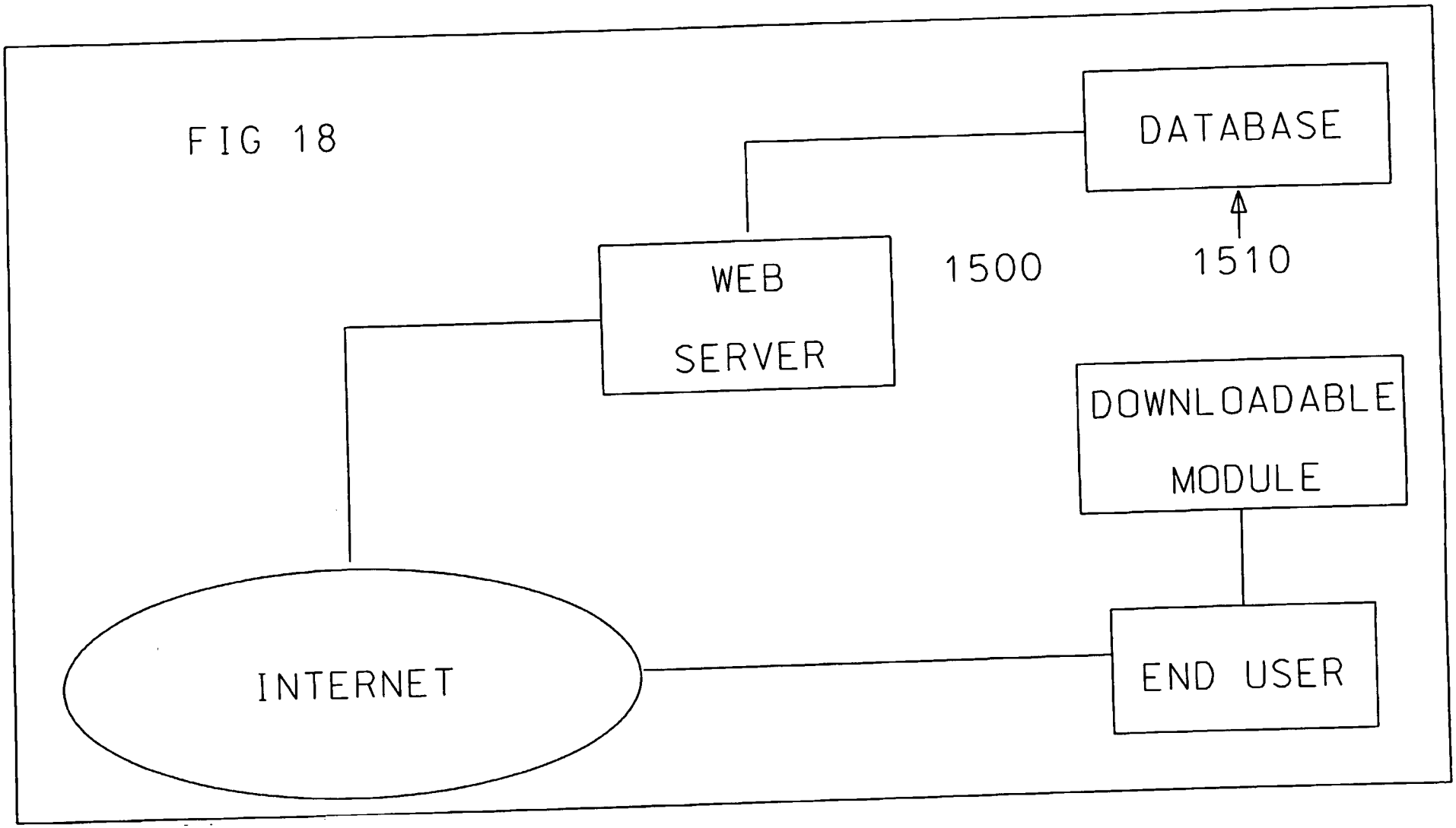

DATABASE
1500
1510
WEB
SERVER
DOWNLOADABLE
MODULE
INTERNET
END USER

FIG 19

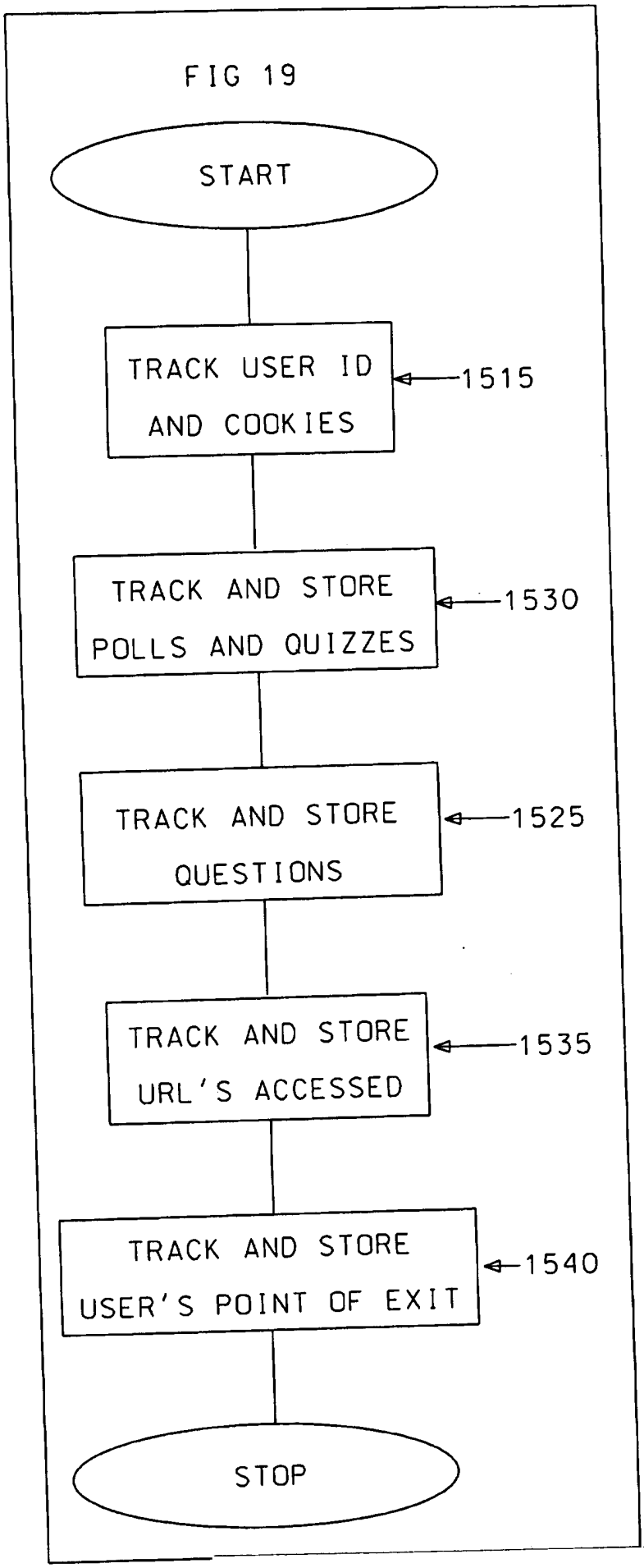

START
TRACK USER ID AND COOKIES
1515
TRACK AND STORE POLLS AND QUIZZES
1530
TRACK AND STORE QUESTIONS
1525
TRACK AND STORE URL'S ACCESSED
1535
TRACK AND STORE USER'S POINT OF EXIT
1540
STOP

FIG 20

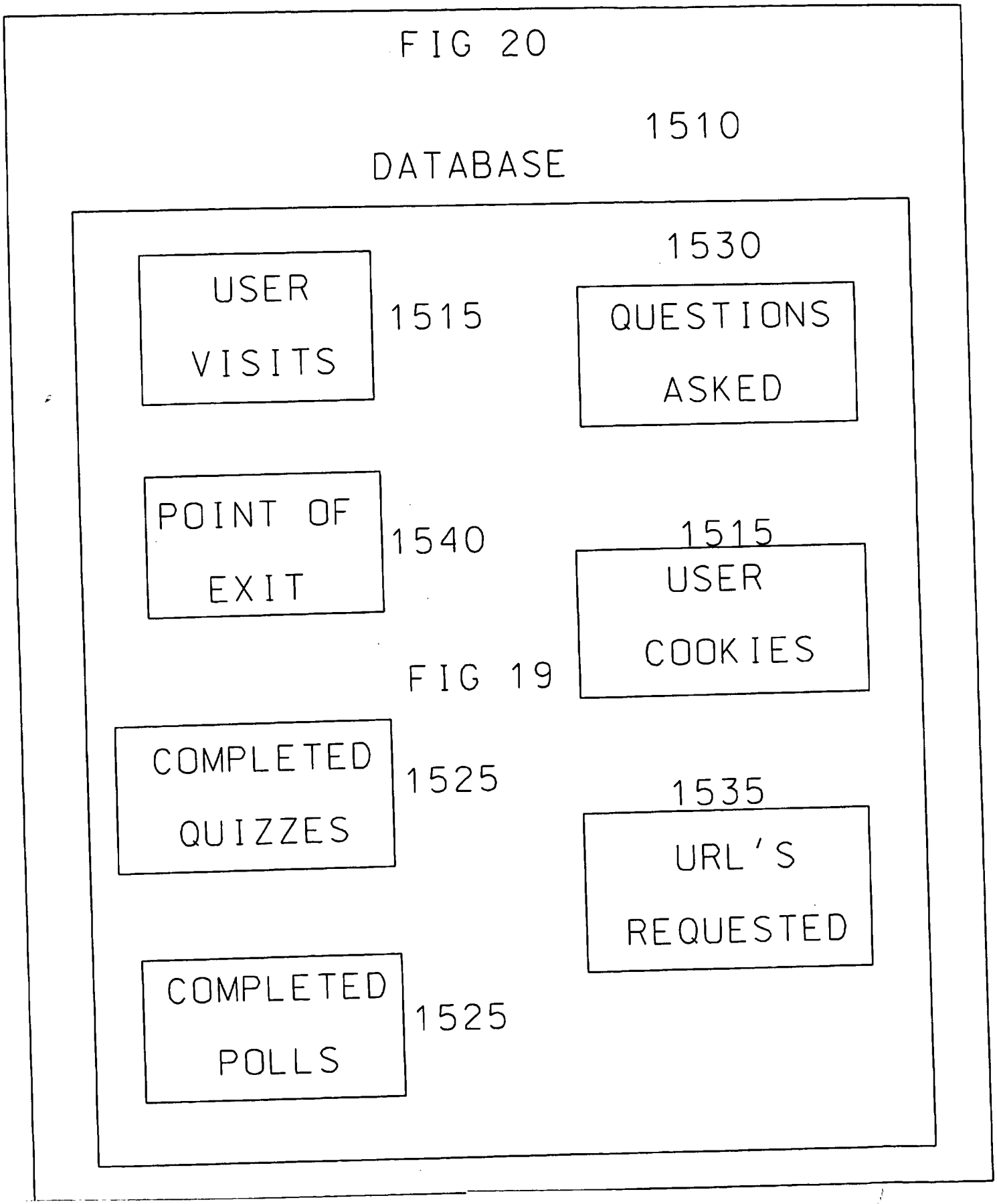

1510
DATABASE
USER VISITS
1515
1530
QUESTIONS ASKED
POINT OF EXIT
1540
1515
USER COOKIES
COMPLETED QUIZZES
1525
1535
URL'S REQUESTED
COMPLETED POLLS
1525

FIG 19